### PRESS CLIPPINGS

### PUBLIC MEETINGS ON CONTAMINATION IN WATTS BAR RESERVOIR

MAY - JULY 1990

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J. Lamb

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The Knoxville News-Sentinel Tuesday, May 8, 1990 Page 1

# Radioactive elements in Watts Bar stir worr

### Report suggests DOE plutonium from Oak Ridge sites as a source

By FRANK MUNGER Name-Senting Oak Pidge burses OAK RIDGE — Environmental activists Monday said new reports provide further evidence of radioactive, contamination in Watts Bar Lake and raise the level of concern.

ronmental Peace Alliance, which has studied the problems and activities of the Department of Energy's Oak Ridge plants in recent

The center is a companion organization to the Oak Ridge Envi-

> "I think there are real questions about how well DOE has protected the public," said Raph Hutchison of the Center for Global Sustainability.

another group member, said they were surprised by the information on the amount of cestum and oth-

er radioactive elements, including plutonium, found in the sediments

Hutchison and Steve Smith,

NUM of Watts Bar.

They were referring to detailed information compiled in a series of draft documents by Oak Ridge National Laboratory. The reports look at the off-site contramination caused by discharges from plants on DOE's Oak Ridge reservation.

While there has been much discussion about major spills and discharges of toxic mercury during the 190s and '60s, much less is known about some of the other contaminants, the group members said.

tests of nuclear weapons.

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Reigh Hutchison Center for Global Sustainability

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The report's authors said the ratio of certain plutonium iso-topes indicates that the contamination is not solely the result of atomic fallout from above-ground

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Smith said he thinks that is significant, even if the highly toxic plutonium is found only in trace amounts.

He said information in the reports indicates there is reason to be concerned about health risks to those who live near the lake or use if for recreational purposes.

### The state of the s

- Conficials confirmed that beryllium production at the Y-12 nuclear weapons plant was shul down last fall because of excessive contamination.
  - Oak Ridge National Laboratory resumed production Monday of yttrkum-90. a valuable isotope used in cancer research/ A4

State Supreme Court's first woman sits on first case/A3 TUESDAY MORNING The state of the s



### The Knoxville News-Sentine

'inal Edition

MAY 8, 1990

• 35 Cents

## Radioactive elements in Watts Bar stir worry

from Oak Ridge sites as a source Report suggests DOE plutonium

By FRANK MUNGER News Senting Oak Hidge bureau

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- ytrium-90, a valuable factope used in cancer research/ A4 production Monday of Ridge National Laboratory

### out automatic appeal **City law chief rules** of church's victory

ruling left to council Action on tunnel

directed to do so." By ERIC VREELAND New-Sentinel staff writer

In an unusual move Monday,
Law Director Tom Varian informed City Council's attorney
that a city appeal of Calvary Baptist Church's land-use court vic-

subsequent poll, and in light of the failure of a majorty of council members to support an appeal, the Law Department will not seek an appeal from Chancellor (William) Inman's decision ... unless than Inman's decision ... unless

The council's 30-day window to seek an appeal ends May 20.

Van Martin, an attorney and member of Calvary Baptist, said Mayor Victor Ashe and the rest of the administration "are not

"This suggests that some of the phutonium disposed of or stored on (DOE's Oak Ridge reserva-Safety patrol members return from D.C. In particular, they pointed to one report's discussion of plutonianother group member, said they were supprised by the information on the amount of casium and oth-er reducctive element, including plutonium, found in the sediments

The Knoxville Journal Wednesday, May 9, 1990 Page 12W

### plutonium cleanup in Watts Bar Lake **WE says more study needed before**

The Associated Press

OAK RIDGE — A spokesman for the Department of Energy at Oak Ridge says the extent of plutonium contamination in Watts Bar Lake has to be established before it can be cleaned up.

The presence of plutonium has been known for years, and the amounts in Watts Bar are described in recent environmental assessment reports as "very small."

Nevertheless, the mere presence of the highly poisonous radioactive material is reason for concern, one environmentalist said.

DOE spokesman Steve Wyatt and Tuesday the plutonium is being studied carefully so that a plan to clean it up can established.

"The bottom line on these reports is that this preliminary analysis indicates no imminent danger to the population," Wyatt said. "It does indicate that most of the contamination should be further evaluation should be further evaluation.

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Watts Bar Lake is downstream of the DOE's nuclear weapons production plants in Oak Ridge. Pluto-

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But Ralph Hutchinson of the
Center for Global Sustainability
said any level of plutonium is cause
for concern.

"I think there are real questions about how well DOE has protected the public," said.

Wyatt said he would not argue that there aren't environmental problems because of the weapons complex.

"There are discharges of radioactive material from the site, there's no question about that,"

Wyatt said. "These discharges primarily took place in the early days, in the late 1940s, '50s and early '60s. Some of the things I've seen make it sound like there was a leak last Friday. That's not true. These are things that occurred many years ago. We aren't talking about a current practice."

Gist said some of the plutonium may be circulating from the bottom sediments because of river currents or other natural causes, and in some cases may been leaching out of old landfills on the DOE reservation.

The DOE has been cleaning up those old landfills for several years, he said.

Ralph Brooks, manager of the Tennessee Valley Authority's water resources division, said water supplies should not be affected by the plutonium.

He said a solution is most likely to come from studies being required of DOE since the Oak Ridge site was placed on the national Superfund list of places than need to be cleaned up.

### DOE says more study needed before plutonium cleanup in Watts Bar Lake

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The bottom line on these reports is that this preliminary analysis indicates no imminent danger to the population," Wyatt said. "It does indicate that most of the contamination should be further evaluated. A site has to be fully characterized before you can do any cleanup."

Watts Bar Lake is downstream of the DOE's nuclear weapons production plants in Oak Ridge. Plutonium is a heavy element used in nuclear weapons.

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Raiph Brooks, manager of the Tennessee Valley Authority's water resources division, said water supplies should not be affected by the plutonium.

### Plutonium problem not new, says DOE

**by John Avery Emison**Oak Ridger staff

Officials at the Department of Energy's Oak Ridge plants are expressing surprise at recent news stories about radioactive and heavy-metal contamination in sediments in Clinch River and Watts Bar Lake.

"Y-12 has to take the blame for the mercury (contamination)," said Robert L. Wesley, spokesman for the DOE nuclear weapons plant.

"But this was acknowledged in publicly available reports on

the Clinch River that date back into the early '60s and probably before then,' Wesley said.

The presence of plutonium in lake sediments has been publicized for at least 10 years, according Martin Marietta Energy Systems spokesperson Gail Ward.

"We've know about the plutonium in Watts Bar since the '70s." Ward said.

News interest in the well-documented problems seems to have been piqued by three health-risk reports issued by the Oak Ridge National Labo-

ratory in March.

The reports were developed as part of ORNL's mandated environmental restoration program, according to program director Dr. Bruce L. Kimmel.

Kimmel also expressed surprise in the flurry of news stories and television segments on plutonium.

"The reference to plutonium was maybe one sentence in the whole report," Kimmel said.

He said the information on the release of plutonium was developed around 1980 as part of the site characterization for the Clinch River Breeder Reactor.

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### Risk to users: 'Very, very low'

## ake lawsuit 'alive and well'

**By CYNTHIA GARRETT** Rockwood Editor

McDonald and Hall and with attorney Gerald Largen, is "alive and expected to be filed within eight weeks by the Kingston law firm of well and gaining momentum" accor-ROANE COUNTY -- A lawsuit, ding to attorney Gary McDonald. Earlier reports the News obtained at a Kingston Water Board meeting that the suit had been dropped was incorrect, McDonald said

The suit involves the release of soil and water supply, including the Energy Systems Inc. and Union Carcontaminating agents into the air, Clinch and Tennessee rivers, by **DOE** contractors Martin Marietta

A recently released report has raised more questions about levels of contamination in Watts Bar Reservoir and the types of con-taminants that may be in lake sediments.

The Center for Global Sustainability, a companion organization to the Oak Ridge Environmental Peace Alliance, released a statement this week saying new reports indicate that the "Watts Bar Reservoir serves as a holding pond for mercury, cesium-137, and other

Poplar Creek and the Clinch River They quote the report as calling 'pipelines for contaminants releasmetals and radionuclides."

voir serves as the major zone for contaminant accumulation.

The group claims the report found systems has been retained in the mercury remain in the sediment of concentrations of cesium-137. "The report indicates that 85 percent of the total cesium released to the that more than 75 metric tons of Watts Bar Reservoir, as well as high Clinch River and Tennessee River Watts Bar Reservoir sediments

the plutonium disposed of or stored on the Oak Ridge Reservation is being transported into offsite areas."

protection agent for DOE, said the small fractions of a percent. The calculations are called the derived plutonium in Watts Bar are very Clayton Gist, an environmental calculations that show the amount of concentration guides.

Serious concerns are addressed in the statement released by the Center

presence of those contaminants in the lake, Gist said, is between one chance in 10 million and one chance in a billion of a cancer event taking place due to plutonium.

every year. The information in this publishes everything it knows in an Gist said the Department of Energy Regarding claims that the public report is "interpreted to the best of Environmental Monitoring Report has not been sufficiently protected

our ability," Gist said. Steve Wyatt, DOE spokesman, radionuclide releases, published in 1988. "The numbers in this report are the same. This is not 'new' past practices have led to connual reports, including a history of noted DOE has acknowledged that tamination and also has released annews." he said

Gist said, but the risk to people

The plutonium is definitely there,

using the lake is "very, very, very

low." The risk of getting cancer from the presence of those conone chance in 10 million and once

chance in a billion . . .

taminants in the lake is between

released data based on many years of sampling performed on the Oak Ridge Reservation and adjacent The new reports are "preliminary scoping studies based on previously waterways," Wyatt said.

plan an extensive site characterization and risk assessment to be per-"These documents will be used to formed in the next few years," he

department will take additional In the next phase, Wyatt said, the samples and perform additional analyses to determine the full extent McDonald said that a number of organizations and groups may wish

for Global Sustainability about risks The statement continues, "The presence of mercury comes as no surprise, though the quantities preindicate

report is the concentration of Another concern raised in the contamination."

for recreational purposes such as "The plutonium is definitely involved for those using Watts Bar fishing and swimming.

of the contamination. there," Gist said, but the risk to people using the lake is "very, very,

### from page 1

### Risk

to participate in the lawsuit being filed locally, either in the entity of the group or as individuals, along with other individuals who are participating.

The McDonald and Hall firm has communicated with attorneys representing plaintiffs in similar cases at Rocky Flats in Denver, Colo., and in Cincinnati, Ohio at Fernald. Residents near Fernald won a settlement of \$78 million from DOE.

The lawsuit at Rocky Flats has been going on for about a year, and parties are still joining the suit, a process called "posturing." Two

new plaintiffs — two banks — have joined that suit. They claim their element of damage comes as a result of loaning money to build houses and businesses to be located where property is being contaminated by Rocky Flats, thus diminishing the value of their collateral.

Regarding the lawsuit being filed locally, McDonaid said "anyone that appreciates clean air, clean soil and clean water" would have an interest in the suit. "I have clients that have contaminated wells and soil, and, by DOE's own admission, they're con-

taminating the air."

McDonald says the new report is "a further verification that we have real problems that have to be addressed. The assurances that DOE. Martin Marietta and Union Carbide have given us need to be severely questioned."

Once the suit is filed, when will it ever end? "It may never be finalized." McDonald said. "The litigation may be completed, but what if the contamination continues? This is a problem that has been a long time coming and it will be a long time being resolved."

## Early studies find no danger from nuke contaminants

DOE sets more tests for Clinch, Watts Bar

By FRANK MUNGER News-Sentinel Oak Ridge bureau OAK RIDGE — The Department of Energy stressed Tuesday that studies being developed to assess the environmental and health risks of pollutants in the Clinch River and Watts Bar Lake are still "very preliminary."

An agency spokesman, however, said early reports "do not

indicate any imminent danger to the population."

Steve Wyatt, an information officer in DOE's Oak Ridge office, said many more samples have to be taken and analyzed before a comprehensive picture of the risks can be drawn. In addition, a series of meetings will be held to gather public comment and discuss the findings.

Wyatt was responding in part to concerns expressed Monday by environmental activists about the level of radioactive contaminants in the reservoir, which is used for fishing and recreation.

Members of the Center for Global Sustainability said newly released reports raised questions about the risks of nuclear materials that were discharged by DOE's plants and are now in lake sediments downstream from the government reservation.

Wyatt said three reports recently prepared by Martin Marietta Energy Systems, DOE's chief contractor in Oak Ridge, are "scoping studies" based on environmental data collected in recent years. Those studies will be the base for additional work, which will determine the level of

risk to human health and recommend whether cleanup projects are needed to reduce the threat.

At this point, however, there is no reason to believe that boaters, skiers or others using the lake for recreational purposes face an elevated risk because of the pollution, Wyatt said.

The DOE spokesman said preliminary briefings with officials from the city of Oak Ridge and Roane County will be scheduled within the next few days to discuss the reports.

Please see POLLUTE, page A6

One of the reports lists more than 30 chemicals and 11 different radioactive substances as "potentially high priority contaminants in one or more reaches of the Clinch River environment." Those pollutants and others will be the focus of more definitive studies.

Not all of the contamination, however, may be attributed to upstream discharges from DOE facilities.

Concentration of at least two priority pollutants — thallium and arsenic — could be from agricultural and industrial activities unrelated to DOE's nuclear research and production facilities, the report said.

One of the chief pollution concerns to be studied is the cesium-137 that was discharged in significant quantities from Oak Ridge National Laboratory. Hundreds of curies of the radioactive material Pernain in the sediments of Watts Bar and measurable amounts of radioactivity can be found in

The minimum

### **ATOMIC-UNIT LEAKS** CITED IN TENNESSEE

Mect on Water Is Disputed ■ Report Traces Seepage. Much From Years Ago

### By MATTHEW L. WALD

Tons of toxic mercury and substanin amounts of the radioactive element esium have spread from a Government nuclear installation in Oak Ridge. fenn., and contaminated the sediment is a 39,000-acre reservoir system, a v Government report says.

he report, dated March 1990, was ained by a monitoring group called Oak Ridge Environmental Peace ance, which made it public this ek. The study, done for the Departent of Energy by a contractor, says it most of the material entered the vironment in the 1950's and early 50's, but that plutonium, a man-made dioactive material that is believed to use cancer, may still be leaking into : Clinch River and Watts Bar Reserir system, a popular area for fishing, ating and swimming. Experts say plutonium, buried in shallow pits. ly be migrating with water through

The Department of Energy and the ite of Tennessee say the contaminan poses no imminent risk to human aith. But according to the Tennessee lley Authority, which built the reserr, the finding will mean either a vast anup or restrictions on activities e dredging the shipping channel and istruction to enlarge locks on the le formed by the reservoir.

Ralph H. Brooks, manager of the 1.V.A.'s water resources division, also d that the dam that forms the reser-Vierr had been built in part because the orea is prone to flooding. "Those flood said. "What happens then?"

### **Fishing Not Banned**

The lake supplies drinking water and used for swimming. Government ofials say those uses are safe now. If erations at the Oak Ridge Reservan dumped material that floats or disives in water, they explain, it would now have flowed downstream over e dam. Fishing has not been banned the area because of radiation or ercury, but in some areas signs warn ainst consuming the fish becuase of unrelated problem, contamination th PCB's, an industrial chemical.

Oak Ridge was established in 1942 asi part of the Manhattan Project, the World War II effort to build the first atomic bomb. In the 1950's, it used vast amounts of mercury, a toxic metal, in a chemical process to purify a form of lithium useful in making fuel for hydrogen bombs.

The-1,400-acre reservation also includes a plant, shut in 1985, where uranium was processed to raise its concentration to enable it to sustain nuclear reaction. Also at the site is a reactor that makes radioactive isotopes for medical and research use.

Previous reports had documented major releases of hazardous material: much of the release occurred in 1956, when the Atomic Energy Commission emptied White Oak Lake, which it had built as a settling pond, to repair the dam.

### Some Experts Surprised

But some experts said that they were surprised by the amount of material that had spread. The new report says that that more than 85 percent of the cesium "released to the Clinch River and Tennessee River system has been retained by accumulation in Watts Bar Reservoir sediments." Extrapolating from that estimate on cesium, which is a waste produced from nuclear fission. the report says that about 75 metric tons of mercury has also accumulated in the sediments.

The study focused on those two materials, in part because they are easy to detect. But it noted other contaminants, including uranium.

In some spots, the level of contamination of the sediment is very high. For example, according to Arjun Makhijani, an expert on the Department of Energy's troubled weapons productions complex, the uranium contamination levels found in some locations exceeds the worst rates at the Feed Materials Production Center in Fernald, Ohio. where the Government recently agreed to pay \$78 million in damages to neighbors.

But Clayton S. Gist, of the Environmental Protection Division of the Department of Energy's Oak Ridge Operations Office, said the maximum level of uranium contamination shown in the study was at a level that "does not bar public access.'

### 'Glant Holding Pond'

Stephen A. Smith, a co-founder of the Oak Ridge Environmental Peace Alliance, said: "This report indicates that the Watts Bar Reservoir is serving as a giant holding pond. It may have to be declared some kind of national

Cleaning it up would be difficult, he said, because dredging would disperse the sediments.

But an official at the Tennessee Department of Health and Environment, Earl C. Leming said, "We don't see an imminent threat to public health or the environment." He agreed about the contamination in the sediments, however, that "what to do with it once you've found it becomes a greater con-

His department, he said, is negotiating with the Department of Energy to study health effects from chemicals. and radiation among people in the

At the Department of Energy, Mr. Gist said that the new study was very preliminary scoping study." The purpose, he said, was to begin gauging the exent of contamination and to devise strategies to clean up or stabilize the contaminants.

### Watts Bar fight rages over leaks

OAK RIDGE (AP) — An environmentalist said yesterday the presence of plutonium downstream from a government weapons facility proves the Energy Department has been lax in running the plant.

DOE officials said the plutonium in Watts Bar Lake perhaps came from radioactive releases decades ago and is not a health risk.

But environmental monitors from the state and TVA said the situation deserves careful attention.

DOE officials at Oak Ridge, where parts for nuclear weapons are manufactured at the Y-12 plant, described the plutonium pollution as "very small."

Plutonium is an element used in nuclear weapons, and it is a dangerous poison. Watts Bar Lake is an impoundment of both the Tennessee River and the Clinch River, which drains the Oak Ridge site.

Clayton Gist of the DOE's environmental protection division in Oak Ridge said yesterday plutonium can be found in sediment under the lake, and in some instances is suspended in the water.

He said the level of plutonium is one ten-thousandths the amount DOE considers a health risk.

But Raiph Hutchinson of the Center for Global Sustainability said any level of plutonium is cause for concern.

"I think there are real questions about how well DOE has protected the public." Hutchinson said.

The DOE's findings of pollutants in Watts Bar were issued earlier this year as part of an on-going survey of the environmental impact on and around the Oak Ridge installation, said DOE spokesman Steve Wyatt.

"The bottom line on these reports is that this preliminary analysis indicates no imminent danger to the population." Wyatt said. He said detailed analyses of the environment around Oak Ridge are done continually.

"There are discharges of radioactive material from the site, there's no question about that," Wyatt said, "These discharges primarily took place in the early days, in the late 1940s, '50s and early '60s. Some of the things I've seen make it sound like there was a leak last Friday. That's not true. These are things that occurred many years ago. We aren't talking about a current practice."

Gist said some of the plutonium may be circulating from the bottom sediments, and in some cases may been leaking out of old landfills on the DOE reservation.

The DOE has been cleaning up those old landfills for several years, he said.

Ralph Brooks, manager of the Tennessee Valley Authority's water resources division, said "water supplies should not be affected" by the plutonium.

He said plutonium has been identified in Watts Bar since at least 1983.
"We are even more concerned now to find the plutonium may be more widespread than we thought," he said.

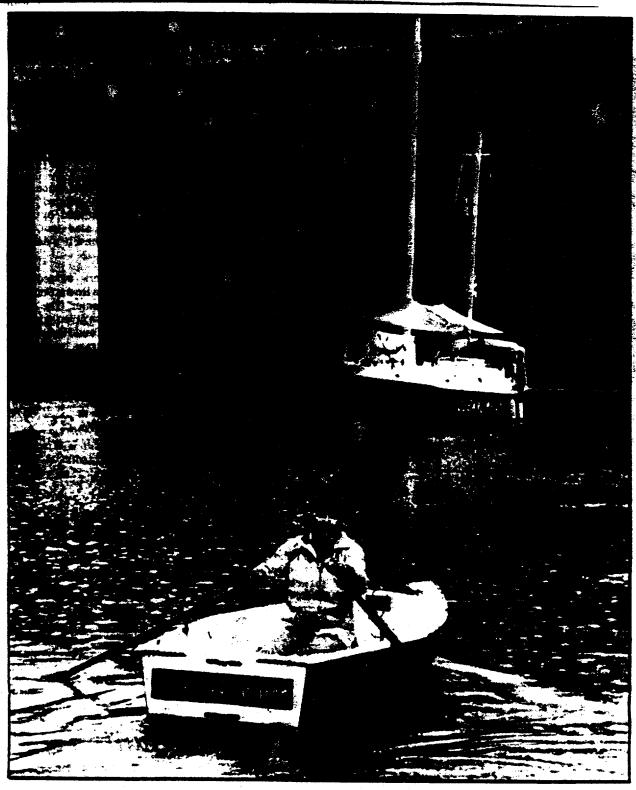
"But as you must realize, what to do about such widespread contamination is not an easy problem to solve," said Brooks.

A solution will come most likely from studies being required of DOE since the Oak Ridge site was placed on the national Superfund list of contaminated sites needing cleaning.

Earl Leming, DOE project coordinator for the state Department of Health and Environment, said the state does not consider the plutonium pollution "an imminent threat."

"We've known that since the start of the Manhartan Project there have been significant releases of material." he said.

The Manhattan Project produced the first atomic bombs during World War II. The Oak Ridge facility was constructed as part of that project.



CIELO MYCZACK rows out to the Clean Water, a sailboat she and husband Leaf built for traveling the Tennessee River in promotion of their Clean Water Project. Last Wednesday, the Myczacks and a group of protesters met with reporters near the Melton Hill Dam to talk about their concerns for con-

taminants they believe DOE is dumping into the water, they also expressed concerns for submerged warning signs that tell boaters about the radioactive area. (Staff photo by Bill Hall)

### Water questions continue

### Cities could become defendants

By PAT HOPE Editor

ROANE COUNTY — Kingston and Rockwood could both wind up on the defending end of a lawsuit if they choose to be passive or not join as plantiffs in a suit against Martin Marietta Energy Systems Inc. and Union Carbide, who are the present and former DOE contractors in Oak Ridge.

The Kingston law firm of McDonald and Hall and attorney Gerald Largen expect to file suit within the next eight weeks because of what they deem serious waterquality problems.

The suit involves the release of contaminating agents into the air. soil and water supply along the Clinch and Tennessee rivers.

According to Largen, the News ar-

ticle carried April 27 saying the lawsuit had been dropped was apparently a misunderstanding because in a letter he delivered to Mayor Bob Humphreys, Largen suggested that if the city chose to run their own tests then the city would not need to be a plantiff. However, Largen says if the city does not "do something," then it would probably become necessary to file litigation against the city for not giving citizens a safe water supply. The same could apply to Rockwood.

Recent reports in the Knoxville News-Sentinel, which quoted members of the Center for Global Sustainability, say that newly released reports raise questions about the risks of nuclear materials that were discharged by DOE's plants and are now in lake

sediments.

To prove their point, the group met at Melton Hill Dam vesterday and took reporters and cameramen by boat to where signs have fallen down into the water at White Oak Dam. Leaf and Cielo Myczack, who are traveling the river this year in a homemade sailboat to raise recognition about clean water, transported reporters and cameramen to the site, despite a steady rain.

One member of the group said they wanted DOE to take more responsibility for letting the public know about the contamination and to stop all future discharges that would contaminate the water more. The group asked DOE to fix the signs, which read "Radiation Hazard.

Please see Water, Page 2-A

### Water-

Keep Out," so that boaters will be more aware of the danger.

The Myczacks, who visited Roane County last year, say the pollution is "breaking down the Earth's immune system." He says some estimates only give us 10 40 years to

correct what we're doing, and after that, the damage will be irreversible.

DOE has said they will hold a series of meetings, take more samples and try to draw "a comprehensive picture of the risks" involved. An article in Wednesday's News-Sentinel said those meetings with Oak Ridge and Roane County officials would be planned in the next few days. At press time, no notice of a meeting date had been received.

### L. Conintration Report says Watts Bar contamination is a problem without answers for now

Editor's note: This story ran in the lew York Times earlier this month

By MATTHEW L. WALD 4 Y Times News Service

Tons of toxic mercury and substantial amounts of the radioactive element cesium have spread from a government nuclear installation in Oak Ridge and contaminated the sediment a 39,000-acre reservoir vstem, a new government report says.

The report, dated March 1990. sas obtained by the Oak Ridge Environmental Peace Alliance. mich made it public in early

The study, done for the Department of Energy by a contractor, says that most of the material entered the environment in the 1950s and early 1960s but that plutonium, a man-made radioactive material selleved to cause cancer, may

### Continued from Page 1

iso includes a plant, shut in 385, where uranium was procseed to enable it to sustain nuhear reaction. Also at the site s a reactor that makes radio. serive isotopes for medical and esearch use.

Previous reports ocumented major releases of azardous material; much of he release occurred in 1956. -nen the atomic Energy ommission emptied White Oak lake, which it had built as a lettling pona, to repair the

But some experts said that hey were surprised by the mount of material that had Bread.

still be leaking into the Clinch River and Watts Bar Reservoir system, a popular area for fighing, boating and swimming. Experts say the plutonium, buried in shallow pits, may be migrating with water through the soil.

The Department of Energy and the state of Tennessee say the contamination poses no imminent risk to human health. But according to the Tennessee Valley Authority, which built the reservoir, the finding will mean either a vast cleanup or restrictions on activities like dredging the shipping channel and construction to enlarge locks on the lake formed by the reservoir.

Ralph H. Brooks, manager of the TVA's water resources division, also said that the dam that forms the reservoir had been built in part because the area is prone to flooding. Those flood flows move a lot of sediment around." he said.

The new report says that more than 85 percent of the casium "released to the Clinch River and Tennessee River system has been retained by accumulation in Watts Bar Reservoir sediments," trapolating from that estimate on cesium, which is a waste produced from nuclear fission, the report says that about 78 metric tons of mercury has also accumulated in the sediments.

The study focused on those two materials. In part necause they are easy to detect. But it noted other contaminants, int cluding urantum.

In some spots, the level of contamination of the sediment is very high. For example, according to Arjun Makhijani, an. expert on the Department of Energy's troubled weapons: production complex, the uranium levels found in some locations exceeds the worst rates at a

"What happens then?"

The lake supplies prinking water and is used for swimming. Governmenti officials say those uses are safe now.

If operations at the O4k Ridge Reservation dumped material that floats or disserves in water. the officials say, it would by now have flowed downstream over the dam.

Fishing has not been banned in the area, but in some areas signs warn against consuming the fish because of unrelated contamination polychlorinated biphenyls, an industrial chemical.

Oak Ridge was established in 1942 as part of the Mahhattan Project to build the firstlatomic bomb. In the 1950s, it used vast amounts of mercury, a toxic metal, to purify a form of lithium useful in making fuel for hydrogen bombs.

The 1.400-acre reservation

300 LAKE, Page#

the Feed Materials Production Center in Fernald, Chic, where the government recently agreed to pay \$78 million in damages to neighbors.

But Clayton S. Gist, of the environmental protection division of the Department of Energy's Oak Ridge Operations Office, said the maximum level uranium contamination nown in the study was at a level that "does not bar public access."

Stephen A. Smith, a cocounder of the Oak Ridge Environmental Peace Alliance. said: "This report indicates that the Watts Bar Reservoir is serving as a giant holding pond. It may have to be declared some kind of national dump.

But an official at the Tennessee Department of Health and Environment, Earl C. Leming said, "We don't see an imninent threat to public health or the environment." But as for the contamination in the sedioments, he agreed that what to do with it pince you've found its becomes a greater concern."

### The Knoxville News-Sentinel

Wednesday, May 30, 1990

AS

### Watts Bar pollution study is on

By FRANK MUNGER
News-Sentinel Oak Ridge bureau

OAK RIDGE — It may be years before authorities decide whether a cleanup of Watts Bar Lake is necessary, but the pollution picture should become clearer this fall.

Dr. Bruce Kimmel of Oak Ridge National Laboratory said water, sediment and fish samples are being taken from 15 sites in Watts Bar and other bodies of water near the Department of Energy's Oak Ridge reservation,

The samples will be analyzed for a wide range of radioactive materials and toxic chemicals, some of them carcinogens,

Kimmel, the project manager, and scientists expect to complete the sampling portion of the "phase one" study by the end of the fiscal year, Sept. 30. An assessment of tasks to human health and the environment will follow.

Results of a preliminary effort were released earlier this year, compiling existing data from three decades of studies — along with updated samples in some instances — to outline general areas of concern and provide a baseline or future work. While scientists and there was no cause for alarm, he screening reports rated dozens of pollutants as potential hazerds.

The DOE-sponsored atudies are intended to evaluate the l'off-site" consequences of discharges from federal facilities in Oak Ridge, but scientists also are looking at poliutants not associated with the nuclear plants.

The phase-one study will draw its information largely from new sample results obtained by standardized field techniques andilaboratory analyses, Kimmel said. Drawing information from multiple research efforts, which was done for the preliminary studies, can cloud the conclusions because of the varied methodologies used, he said.

Environmental researchers probably will pare the number of pollutants on the risk list as the work becomes more detailed during the second phase, expected to begin next spring.

"I hope we can eliminate some," Kimmel said. "The analytical costs are just eating us alive on this project."

Kimmel said the phase-one study will analyze samples for the presence of 11 radionuclides — particularly cesium, strontium, cobalt, tritium and two isotopes of suropium.

In addition, scientists will look for evidence of 17 organic compounds — headed by chlordane and two forms of PCBs — and 21 metals, including arsenic, antimony, lead and thallum.

The highest pollution levels are expected to be found in the White Oak Lake embayment, where discharges from Oak Ridge National Laboratory enter the Clinch River.

Phase two of the study will focus on a limited humber of pollutants, analyze how they move through the food chain and refine the risks to humans and aquatic life. The direction of that part of the study, however, depends largely on the findings from phase one.

Collection

Because some pollutants have received much sublic attention—such as mercury discharges from the Y-12 inuclear weapons plant—and already are a subject of some health concerns, they likely would be included in follow-up studies even if scientists perceived them to be a low risk, he said.

### )ffsite pollution answers nee

to Department of Energy's Cult-Ric rations and its con etts Energy Systems: Inc., do an ex-at job of providing: information: about ronmental cleanu to reservation, but a word about the exof offsite pollution and what is being in that regard has been brief at best: n talking about the Clinch River and 3 Bar Lake. Maybe it's time that the top agement of our local DOE facilities ex-1 the offsite pollution problems to the ic. So far, unless I missed something. have not been heard from as several es have appeared in the local media nning in January describing the so-ulation of conteminated material in the th and Watts Bar.

12 Plant officials didn't waste much in informing us in early May of the pletion of the closure of New Hope 1. Of course it's good to know that the acre former holding pond has been closaccordance with the Resource Conseron and Recovery Act and documentsprepared for review and certification ennessee's Department of Health and ironment. At least we have reasonable rance by this action that no more age will occur from the pond, built in as a holding area for waters of Upper Fork Poplar Creek, which flows 1gh Oak Ridge and into the Clinch r. It's a natural stream that originates e plant and flows at the rate of approxely 7 million gallons a day.

w Hope Pond was removed from seras a waste management facility in imber 1988, according to the informafrom the public relations department of IS. Since that time, thousands of cloads of clay and a synthetic liner have installed at the former pond site to rainfall from percelating through es in the pond bed and leaching into the ndwater system.

e \$2.4 million project is the latest in a s of actions taken by DOE and the ES to close old waste management sites further protect the environment from ntial industrial pollutants, says the 3 release of Robert J. Wesley,

recent years, discharges to East Fork ar Creek have become increasingly her through the use of the centrel pollucontrol facility and other Y-12 Plant imements designed to treat pollutants at source and prevent their release, ofis at the plant declare.



Over the:

ρV Hayden Evans

Water form the East Fork Poplar Oreck is now diverted to a plastic-lined 2.5-acre lake before leaving the government reservation. The improvements are verified by daily environmental sampling of the effluent and by the abundance of aquatic life found: in the

Other waste management areas closed at the Y-12 Plant within the past year include the Chestnut Ridge Security Pith, the Chestnut Ridge Sediment Disposal Basin, Bear Creek Burial Ground Area A. and the Oil Land Farm, the release proclaims.

Fine, now the public needs to know the seriousness of some 30 chemicals and 11 different radioactive pollutants labeled as potential high-priority contaminants reportedly in the Clinch River. Reports have circulated for the past few months about mercury and plutonium contamination as well as radioactive cosium in the sediments of Watts Bar Lake. Further, we need to know what the government intends to-do about the situation.

It is not enough for a spokesman from the public relations department or a scientist a lew layers down in the hierarchy to say that studies are being developed to assess the risks and that the problems are not new. When property values decrease because buyers back away from contracts due to uncertainty and people worry whether or not it is safe to enjoy the lake's recreational opportunities, reassurance from the top is required. That is, if assurance on the positive side can be given, but if they can't, we should know that too. I suspect the positive far outweighs the negative.

In 1963, Congresswoman Marilyn Lloyd began an investigation into the mercury spill that eventually led to the identification and cleanup of contaminants on the Oak Ridge Reservation. The work is still under way, as evident by the report of the closing if the New Hope Pond. Of course, what Lloyd started was helped last year by the unveiling of Energy Secretary James point with in Hvation: How on cleanup of contaminants "on the

Lloyd, in speaking of the hearing-shaded to examine the extent of contemination on the reservation said. "The esteeme of that hearing indicated there-were many more questions than answers. The health effects were not known, the full extended the contamination was not known; now did we know best how to clean up the material."

Well, it appears that one came make the same statement today about the extent of contamination Voff" the reservation in the Clinch River and Watts Bar Laborand; as we all know, the contamination of the waters resulted from the waters resulted from the waters as the '40s and '80s. So, if the openness thing is to continue, the environmental activities account to the second of the continue of the second of the continue of the environmental activities account to the continue of tivists, news media and the people who live in the vicinity of the Clinch River and Watts Bar Lake should be given a status report on the contamination of the waters by the officials at the top.

Beautiful Watts Bari Lake has a 738-mile shoreline which makes it a center of waterrich recreation. It provides abundant opportunities for fishing, bosting, sailing, swimming and water skling with adjacent camping and picnicking areas. If it a safe place today

or not?

### Mercury blamed in death

## Father ate many fish from Watts Bar, son says; suit delayed again

By FRANK MUNGER News-Sentinel Oak Ridge bureau Bill Robinson, a Dayton businessman, said he never expected to get rich by filing a lawsuit against the federal government.

His main interest, Robinson said, was warning people about the danger of eating fish from Watts Bar Lake. He thinks the mercury contamination in those fish killed his father and maybe his mother, too.

After 5½ years of repeated postponements, however, Robinson is still waiting to tell that story in court.

"The financial thing is sort of a pipe dream," Robinson, vice president and part-owner of Robinson Manufacturing Co., said during a recent interview. "If you don't (seek damages), you can't afford to hire lawyers. So far, it's cost me several thousand dollars anyway. I don't know if I'll ever recoup that."

On Dec. 13, 1984, he filed a "wrongful death" suit in U.S. District Court in Chattancoga against the Department of Energy and a parallel suit asking for \$8 million in damages from Union Carbide Corp., the former operator of DOE's Oak Ridge plants.

The suits were filled exactly one year after the death of Robinson's 75-year-old father, William E. Robinson.

According to an autopsy report by Dr. Robert L. Kendall, a Murfreesboro pathologist, the elder Robinson had "marked cerebral atrophy" and his brain tissue contained 12½ times the normal level of mercury.

Robinson said he asked the pathologist to look for mercury in

wife and I realized there was something wrong with Mom and Dad. We realized that neither one of them had any sense of smell. They'd let food spoil, and they wouldn't do anything about it. 19

**3ill Robinson** 

his father's body because of news reports he had read in the spring of 1983 about mercury discharges from the government's Y-12 nuclear weapons plant in Oak Ridge. DOE had just released declassified documents showing that 2 million pounds of mercury at Y-12 could not be accounted for and that hundreds of thousands of pounds had been released into a local creek.

The creek eventually empties into the Clinch River and, on downstream, Watts Bar Lake, where Robinson's father did most of his fishing.

"Dad was a big fish eater," Robinson said.

"Sometimes they'd catch 110 or 120 sun perch and cook what they wanted and freeze the rest. They used to clean and wash the fish and put them in used milk cartons. They'd fill the cartons with water and freeze them. I don't know, but I've been told when you thaw and cook the fish they're just about like fresh."

Particularly after they retired in early 1977, Robinson's parents spent a lot of time in their camper-type trailer and fished on the upper end of Watts Bar near Kingston.

During the summer, they'd eat fish with slaw and potatoes just about every day, Robinson said.

Otherwise, it'd be two or three times a week, he said.

"I guess it was sometime about 1978 that my wife and I realized there was something wrong with Mom and Dad," Robinson said. "We realized that neither one of them had any sense of smell. They'd let food spoil, and they wouldn't do anything about it."

Robinson said he kept looking for something in his parents house they might be a cause of the problem.

In the summer of 1980, while he and his wife were staying with his parents for a few days a time, Robinson saw something else that disturbed him — although he's reluctant to talk about it, even a de-

"Sometimes Daddy would get up in the middle of the night and, well, dance through the house ... on his tiptoes," Robinson said. "I wouldn't have believed that if we hadn't been there. There was connecting urong there."

something wrong there."
Later, his father's mind started to wander.

Some people, he said, may believe the problem was Alzheimer's disease. That may be true, Robinson said, but he believes that the mercury contamination in those fish helped trigger

The same goes for his mother,

who developed Parkinson's disease, he said. She died last November at age 78. Robinson wonders if mercury poisoning might not have precipitated or contributed to her health problems.

The Robinson trial was postponed again last month to allow lawyers more time to prepare for the case. It was reset for Sept. 24. Robinson said he hopes this time it really happens, and that he gets a chance to tell the story to a jury. Many of the witnesses are getting old.

Some of them, including the pathologist who did the autopsy on his father, have already died, and Robinson questions whether the government lawyers are purposely delaying the trial.

"I think that's one of the defenses for any kind of a crime, just to put it off longer and longer and maybe just everybody will forget about it" he said

about it," he said.

The Department of Energy, which also is paying the legal fees for Union Carbide, declined to comment on the case.

The federal agency, however, has issued a number of statements in recent times about pollution in Watts Bar. While DOE acknowledged the need to study and evaluate the risk of the toxic discharges from the Oak Ridge plants, federal officials said studies conducted so far do not indicate any imminent health threat to people using the lake for fishing or recreation.

"The water up there is real clear and pretty, or at least it used to be," Robinson said. "but it's not a cut-and-dried thing. We want to warn people not to eat the fish. That's what we're trying to do. Something isn't right."

### The Knoxville News-Sentinel

Wednesday, June 13, 1990

### DOE to hold public meetings on Watts Bar

By FRANK MUNGER News-Sentinei Oak Ridge bureau

OAK RIDGE - Because of public concerns about contamination in Watts Bar Lake, the Department of Energy will hold open meetings later this month to discuss plans for pollution studies and answer questions from area residents.

The meetings will be held June 26 at the Holiday Inn in Roane County, at the Harriman exit off Interstate 40, and June 27 at the American Legion Hall near Spring City in Rhea County.

Both sessions will begin at 7

"We felt the need to communicate with the public on some of these issues," DOE spokesman

Steve Wyatt said.

Wyatt said the agency had received a number of calls from residents and owners of resorts along Watts Bar following recent news reports. Officials with the state Department of Health and Environment also have received calls from people wanting to know more about the situation.

A study prepared by DOE's chief contractor, Martin Marietta Energy Systems, was released earlier this year. The report assessed the level of pollution in Watts Bar and other "off-site" locations as a result of discharges from the government's Oak Ridge nuclear facilities.

The report rated dozens of pollutants as potential hazards. The list included radiaoctive materials, such as cesium-137 and a range of hazardous chemicals.

DOE officials emphasized. however, that they do not believe the pollution in Watts Bar poses an imminent threat to the health of people using the lake for fishing or recreational purposes.

Much of the pollution discharged from the Oak Ridge plants over the past five decades has accumulated in the sediments of Watts Bar, some of it a couple or more feet deep.

The potential threat of the pollution is to be examined more closely in a series of DOE-funded studies planned for the next sev-

eral years.

State environmental officials expect to participate in some health-effects studies in the area.

### Martin says Watts Bar is safe for recreation

**by Mike Fowter**For The Oak Ridger

A Martin Marietta Energy Systems official told members of the Anderson-Roane County Professional Society Wednesday that radioactive contamination of Watts Bar Lake is minimal and the lake is safe for recreation.

Gale Ward of Energy Systems led an open discussion of the problem at the meeting of the society at Western Sizzlin' restaurant in Harriman.

Ward substituted for Bruce Kimmell, head of environmental studies at Oak Ridge National Laboratory, who was originally scheduled to speak but was called to Washington unexpectedly.

Ward said most TV and press coverage of the problem consisted of information from old reports based on data collected years ago. Describing the coverage as sensationalized, Ward said it resulted in giving much false information to the public.

Present studies being carried out at ORNL, she said, show that the risk to humans from contamination in the Watts Bar basin is minimal. "I would have no problem fishing or swimming in Watts Bar Lake," she said. "I would even eat fish from there.

"Plutonium is not a problem here. Any other heavy metals in the system are buried under a meter of sediment and present no problem. Reports of suspended plutonium are ridiculous. As far as I can tell, we have one of the best monitoring systems available and we make all our data freely accessible to the public.

"We have nothing to hide, and if there were any danger, we would be the first to say so," she said.

Public hearings on the subject were originally scheduled for June 26 and 27 in Harriman and Spring City but are being rescheduled by Energy Systems because the Tennessee Conservation League has planned meetings on both days about the same situation. The new hearing dates will be announced later.

### No imminent Watts Bar hazard, **DOE tells 2 Tennessee lawmakers**

News-Sentinel Washington bureau

WASHINGTON — A Department of Energy official Thursday assured Sen. Albert Gore Jr. and Rep. Marilyn Lloyd that there is no imminent health hazard in the Watts Bar Reservoir as long as sediment in the deep water is not disturbed.

Much pollution discharged from the Oak Ridge National Laboratory in the past 30 years settled in the sediment at Watts Bar Lake, including mercury and radioactive cesium-137.

The Department of Energy plans to conduct other tests, and Gore said he will be monitoring the progress.

Leo Duffy, DOE's director of

environmental restoration and waste management, briefed Gore and Lloyd, both Democrats, on test results to date in separate meetings.

Gore said there remains a limit on the number of fish that one should consume from the lake because they contain traces of mercury and PCBs.

"I was encouraged by the thoroughness of their work," he said. "The basic problem is that any effort to remove the (deep water) sediment would stir it up and create a worse problem."

Lloyd, whose district stretches from Oak Ridge to Chattanooga, said ORNL "is far ahead of other DOE facilities in terms of clean-

up."

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### Meeting about lake scheduled

By PAUL PAGE Assistant Editor

OAK RIDGE - Two meetings for the informing of the public on the result of Watts Bar Lake contamination studies have been scheduled by the Department of Energy

The first will be at the Holiday Inn at Harriman on Tuesday, June 26. and the second will be at the American Legion Hall at Spring City on Wednesday, June 27. Both meetings will be at 7 p.m.

A DOE spokesman said the agency feels the "need to communicate

with the public on" recent news reports concerning pollution of the lake. Some of the reports resulted from DOE's release of information from its official study of the conditions. The report rated many pollutants as "potential" hazards. but they also emphasized DOE does not believe the pollution poses any imminent threat to persons using the lake for flahing or for any recreational purpose.

In recent weeks, DOE representatives have commented on the pollution situation at several meetings of professional groups. However, the meetings now scheduled for Harriman and Spring City are the first to be announced as being directed to the general public.

Jim Rogers, author of the 1988 Oak. Ridge Reservation environmentalstatement, recently reported a decrease in both air and water pollution from 1984 to 1988. He made the report in addressing the Roane-County Environmental Review-Board.

Dr. Bruce Kimmel of DOE told at the same meeting a study now beingconducted has not indicated there is: a "short-term present, immediate" danger." He said the study has found cesium 137 and mercury in the lake system, usually in the old river channel at a depth of about 35 feet. He said the concentration is found about 50 centimeters deep in the soft sediment." Thus it is hard to reach the contamination, he said.

Most of the cesium 137 and mercury had been released in the mid to late 1950s, the study said. It also said contamination comes from all branches flowing into the Watts Bar system.

Kimmel also reported Martin Marietta Energy Systems Inc. at Oak Ridge is meeting with TVA and the Oak Ridge Nuclear Laboratory to discuss the situation. Their discussion involves what effect there would be if TVA were to widen the locks at the dam and disturb the contaminated sediment. No such lock program has been announced.

The DOE study is identified as the Clinch River remed\_al investigation. It includes gathering information as for site characterization, sampling, risk analysis as to humans, more extensive sampling and analysis, and preliminary identification and evaluation : "prective measures.

The Roane County Naws Friday, June 15, 1990 P. 3-A

### Environmentalists plan to protest lake contamination

KINGSTON — In what they say is "an attempt to bring awareness," to the citizens of Roane County, the Foundation for Global Sustainability will sponsor a demonstration at Kingston City Park Friday, June 15 at 10 a.m.

The group, which will meet at the swimming area of the park, will be joined by demonstrators from a Chattanooga environmental group called Earthworks.

Spearheaded by Leaf Myczack, founder of the Clean Water Project, the demonstration, according to him, is to make people aware of contamination in the lake and an advisory issued by the Department of Health and Environment about fish consumption from Watts Bar and other TVA reservoirs.

According to Paul Davis, director of the division of water quality control with DHE, the advisory has not changed since its April 6, 1989 release, but, he said, while the department is still advising against eating fish from the lake, there's "no reason to believe there's any potential for any adverse health impact from normal contact with the lake water or incidential ingestion of the water," in other words, there is "no reason not to use it for recreational purposes."

The advisory against fish consumption said, "Watts Bar Reservoir, Tennessee River (Kingston to Lenoir City): Catfish, striped bass and striped bass-whitebass hybrids should be considered unsafe for consumption."

In another part of the report, "a

precautionary advisory," says, "Limit consumption of sauger, carp, whitebass, and smallmouth buffale to no more than 1.2 pounds per month. Limit consumption of largemouth bass, which weigh more than 2 pounds, to no more than 1.2 pounds per month. Limit consumption of catfish to no more than 1.2 pounds per month."

The local business community has taken issue with the demonstrators for all the adverse publicity brought to the lake.

Jim Bilyak, president of the Roane County Chamber of Commerce, said, "It is totally irresponsible and dangerous to take limited information, much of which requires technical skills to interpret, and build a case to match one's mindset. There are much more positive ways to work for a clean environment."

A public meeting will be held Tuesday, June 26 at the Holiday Inn for the purpose of informing the public further on this subject. (See related story, this page)

# The Knoxville News-Sentine

JUNE 17, 1990

### Lake business dries up

## Watts Bar resorts say pollution scare 'devastating'

By FRANK MUNGER None-Sentral Oak Ridge bureau Pollusion reports are scaring away tourists and draining the economic life out of Watts Bar Lake, suffering resort owners say.

"We're being devastated," said Steve Speciale, president of Rhea Harbor, a laheside resort near Spring City, "It's getting to the point where we're going to hose some businesses on the lake, myself more than "

Slow dock traffic and engage cottages are symbols of a decline in business that

began earlier this year and appears to be getting worse. Reservations for the peak months of July and August are down dramatically.

Owners and operators blame the situation on widespread news reports — locally and nationally — that focused on pellution in the lake resulting from upstream discharges at the Department of Energy's Oak Ridge nuclear facilities.

"We're having cancellations and a very noticeable decrease in the number of inquiries based on our advertisements." Carl Hessenbach, a general part wate for Decent card.

"What we have bere is an economic problem," Hessenbach said. "It's a little early for the word 'disaster,' but if nething happens, that's what it's going to turn into."

A number of resort owners said business is down 20 percent or more from their year. That's almost unbelievable, they said, because the summer of 1969 was an awful season largely washed out by a series of floods.

Speciale said 1990 was considered a

Speciale said 1990 was considered a make or break" year by many folks.

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The Knoxville News-Sentinel, Sunday, June 17, 1990

Sunday, June 17, 1990 **A11** 

Continued from page Al

"Everybody was looking at this year to make up their loses from last year," Hessenbach said

Some of the Watte Bar bustness operators said they don't want to appear to be anti-environment, but they believe the risks of the lake's pollution have

been greatly exaggerated.
"It's the radical attitudes of the activists," Speciale said. "If the DOE is lying or not teiling us the truth, then maybe we do have a severe problem. But I can't con-ceive of that, and we can't run our lives for the next 15 to 20 years on the belief that our government officials are not telling us the truth."

Based on reports from DOE, the Tempessee Wildlife Resources Agency and state environmental officials he said, "We do not not believe we have an imminent health problem at this time."

Nonstheless, resort officials

said there's no doubt what is the summer tourists keeping

away. The fishing's been good and "The fishing's been good and of the weather," it's not because of the weather," said Greg Harding, owner of Sam's Boat Dock.

Harding said his business was down 64 percent in April after some of the Watts Bar pollution stories i received: attention. Last month was better because of fishing tournaments and other activities aiready planned, he said. "But it's hurt real bad," Har-

ding said. "People who've booked here regularly for years didn't even bother to call."

The lake resorts ordinarily draw much of their business from Ohio, Georgia and other states in the region, but stories of Watts Bar pollution have appeared

widely Hestenbach said one regular visitor sent a clipping from a Daytor, Ohio, newspaper, which ran a story on Watta Bar pollution by The New York Times. He said he sent it to the Tennessee Dapartment of Tourism as an example of the problems faced by the Watts Bar resorts.

Resert operators said they want the state to take some ac-tion — pither provide financial relief to the businesses or do something to help counter the negative

reports about Watts Bar.
"If the state does not decide to do something immediately - I mean in the very near future we will see the rest of this season go down the tubes," Hessenbath said. "And when it goes, the state tax base will suffer, too." Ø9:

See WATTS BAR Page 4

Soing

**DOE** 

Kaffniak,

Cattry

### sees no health to human bealth. Kep. Lloyd by John Zicconi

Oak Ridger staff

A press release from Lloyd's

office following her meeting with Leo Duffy, DOE director of Environmental Restoration and

> U.S. Rep. Marilyn Lloyd, D-3rd District, said she feels there is no danger to human health from heavy metal contamination of Watts Bar Reservoir and the Clinch River.

Department of Energy waste Lloyd met Thursday with Washington, D.C., to discuss the officials management

After the meeting, Lloyd said she was satisfied with DOE's report and believes the mercury contamination in the reservoir's sediment poses no threat

that is currently being done there for recreational purposes and work on the locks of the dam will not exacerbate the situation."

quotes

Lloyd as saying, "After reviewing the results of an extensive investigation done by a team of DOE and Oak Ridge scientists, Mr. Duffy has assured me that there is no risk to braman bealth. For the moment, Watts

Waste Management

danger at Watts Ba

this year to make up

nessee waterways during the 1908. Lloyd said a health risk Mercury and other beavy metals from DOE facilities in Oak Ridge leaked into Tenassessment study released by DOE in March found the reserrair to be safe.

clear contaminants are in Watts businesses that depend on tourists, area business owners

"The contaminants are deep in the sediment of the main river channel and all sources bave been identified. There are no contaminants in the shallow water areas, and the dredging

Bar Reservoir is safe.

ed on our advertisement Carl Hessenbach, a gen of manager at Watts Bar Resor and a very noticeable decre losses from last year," : from last year, which was poor season because of floods in the number of inquiries b said Steve Speciale, presid of Rivea Harbor lakeside rest But many estimate bust to be down 20 percent at m "We're having cancellad "We're being Hessenbach said. However, reports that nu-

Lake have harmed

"Everybody was booking at

to the surface to present a pro-

aminants in the reservoir. A sentatives from the Tennessee d Health Lloyd beld a 1983 bearing adhask force comprised of expre-Valley Authority, DOE, the U.S. Geological Survey, the Tenthe U.S. Corps of Engineers and the ISPA was formed to deal with dressing concerns over nessee Department and Environment,

inent is being deposited a year, and they must be con 130

state further mendations are an example of tertaken by local authorities and that recreational use of the reservoir and river poses no armal safety procedures unsaid the TWRA recompetesweese in Weshington

"The confamination is way down in the sediment and it would take the sediment rising breat to people.

health bazard."

blem," she said. limited to 1.2 pounds per mouth because of PCBs. The PCB sonal consumption of catfish and sauger caught in the reservoir and the Clinch River from **Melton Hill Dam to Kingston be** 

the problem.

million. The federal Food and Drug Administration as well as

he Environmental Protection gency consider PCB levels nigher than two parts per milion to be dangerous, Denton

EVERY OF EIGHT IN THIS SITES WELL count not to exceed one part per "This task force is still in sulted before any dredging ac-tivities can occur," Lloyd said in the release. "We do not anticipate that the contamination will move downstream. Watts Bar Dam is acting as a barrier and an average of 1 inch of sed-

businesses on the lake, myself Continued from Page 1

ieve the risks of the pollution 'H's the radical attitudes of the activists," Speciale said. 'If the DOE is lying or not telling us the truth, then maybe we do Business owners say they behave been greatly exaggerated. have a severe problem.

and we can't run our lives for the next 15 to 29 years on the belief that our government officials are not telling us the "But I can't conceive of that, truth," be said.

fishing or swimming in Watts Bar Lake," said Gale Ward, Marietta Energy Systems, which operates the Oak Ridge facilities for DOE. "I would would have no problem Martin Martin Plutonium is not a problem here. Any other heavy metals in even eat the fish from there. Ē spokeswoman

the system are buried under a 5 meter of sediment and present suspended plutanium are ridi-Reports problem. culous."

Besources Agency tras issued vironmental specialist with the Tennessee Division of Water Wildlife recommended limitations on fish consumption in the reservoir and Tennessee River but se agency has nothing to do Pelletion Control. Limitations beavy metals leaked by DOE, said Greg Denton, an enyears ago PCBs, were found to be slightly elevated, although still below polychlorinated biphenyls, Tennessee nere established ŧ

have not found any at levels that would justify issuing an "We screen for metals and federal safety levels, he said.

TWRA recommends that peradvisory," Denton said.

The Roans County News June 18, 1990 P. 1

### Hearing on lake slated

By PAUL PAGE Assistant Editor

HARRIMAN — Residents of Roane County will get the word from Martin Marietta Energy Systems Inc. on Monday, June 25, regarding the pollution in Watts Bar Lake.

It will come in the first public meeting report on the condition of the lake, although there have been similar reports made to professional groups in the area. The hearing will be at 7 p.m. at the Holiday Inn.

Originally the meeting was set for June 26, but it was advanced one day in order to avoid conflict with a session of the conservation subcommit-

tee of the state House of Representatives. That meeting, relating to the presence of PCBs, will be held at Watts Bar Dam resort near Spring City.

A second Martin Marietta meeting will be held June 27 at 7 p.m. at the American Legion Hall at Spring City. It is to be more directly concerned with the area of the lake nearest the dam.

Steve Wyatt of the Energy Systems community relations department announced the dates for the Harriman and Spring City meetings. Details for the two meetings will be announced later. B2 132 1330 × 83:13 × 7 m × 16fmm (°E);

The Roane County News June 18, 1990 P. 1

### Lloyd report: Watts Bar Lake waters are safe

WASHINGTON — U.S. Rep. Marilyn Lloyd recently requested information from Leo Duffy, Department of Energy director of Environmental Restoration and Waste Management, on contaminants in Watta Bar Reservoir.

"After reviewing the results of an extensive investigation done by a team of DOE and Oak Ridge scientists, Mr? Duffy has assured ms that there is no risk to human health. For the moment, Watts Bar Reservoir is safe. The contaminants are deep in the sediment of the main river channel, and all sources have been identified.

"There are no contaminants in the shallow water areas, and the dredging that is currently being done there for recreational purposes and work on the locks of the dam will not exacerbate the situation." said Lloyd.

Lloyd held a hearing in 1963 which addressed concern over contaminants in the reservoir. As a result of this hearing, a task force comprised of representatives from the Tennessee Valley Authority, DOE, the U.S. Geological Survey, the Tennessee Department of Health and Environment, the Corps of Engineers and the Environmental Protection Agency was formed to deal with the problem of contaminants in the reservoir.

"This task force is still in place, and they must be consulted before any dredging activities can occur," Lloyd said.

The Tennessee Wildlife Resources Agency is currently issuing recommended limitations on fish consumption with each fishing license and has posted data on fish consumption throughout the area. The biggest health risk in fish consumption is to nursing mothers.

"In 1983, we required DOE to shut down everything that was contributing to contamination and required DOE to come forward with identification of the contaminants and plans for cleanup. We have, made great progress since then. Oak Ridge is far ahead of other DOE facilities in terms of cleanup. We do not anticipate that the contaminants will move down stream. Watta Bar Dam is acting as a barrier, and an average of one inch of sediment is being deposited a year, which further reduces the health hazard," Lloyd concluded.

### DOE sets 2 meetings on Watts Bar

by John Avery Emison
Oak Ridger staff

The Department of Energy will hold two public information meetings next week on the recently publicized pollution hazards in Watts Bar Lake.

DOE and Oak Ridge National Laboratory officials will make presentations at the meetings scheduled in both Roans and Rhea counties.

"The reason we are holding these meetings is that we have received a number of inquiries from people in the area," DOE spokesman Steven Wyatt said.

Robert Sleeman, DOE's director of environmental restoration efforts in Oak Ridge, and Dr. Bruce E. Kimmel, an ORNL scientist and co-author of three reports on Watts Barcontamination, will make formal presentations at the meetings.

Wyatt said the presentations will focus on the potential ecological and human health risks associated with pollution in the lake.

The three ORNL reports show that Watts Bar sediments contain minute amounts of plutonium, heavy metals and other toxic chemicais, which dame from operations on the Oak Ridge reservation.

Wyatt said Sleeman and Kimmel will be on hand to answer specific questions an hour before the meetings begin.

The Roane County meeting will be held at 7 p.m. Monday in Harriman at the Holiday Inn on U.S. Highway 27.

The Rhea County meeting will be held at 7 p.m. June:27 in Spring City in the American Legion Hail.

### The Roane County News, Wednesday, June 20, 1990

### Watts Bar Lake contamination

# Public meetings to include DOE, TVA, TWRA officials

By PAUL PAGE

Assistant Editor

ROANE COUNTY — Three public meetings are scheduled for next week for the presentation of information on any contamination in Watts Bar Lake.

The meetings follow the publication of portions of official reports regarding pollution.

One of the meetings, to be held June 26-27 at Watts Bar Resort near the TVA dam, was arranged at the request of marina and resort owners who said their business is being hampered by reports of pulltition.

The farst of those two meetings is scheduled for 6:30 p.m. Twisday and the second for 9 a.m. Wednesday participants will include members

of the House subcommittee on health and the environment.

It was arranged at the urging of Rep. Shirley Duer of Crussville, who is a native of Meigs County, where some of the resorts are located. Her district also includes Rhea County, where numerous other resorts are

tuated Other participants will include

representatives of the Department of Energy, the Temessee Wildlife Resources Agency, Tennessee Valley Authority and others.

Meanwhile, the DOE announced public meetings June 25 in Roane County and June 27 in Rhea County on studies of sediment contamination in the Clinch River and Watts Bar Lake downstream of DOE sites

at Oak Ridge.

The two DOE meetings will for our the recently complete preliminary studies on cesium a mercury contamination result from past DOE operations a waste disposal activities and potential ecological and hum

Please see Lake, Page 2-A

### Lake-

health risks. The preliminary studies indicate that there is no imminent risk to the public as a result

PAGE 2-A

The Roane meeting will be held Menday, June 25, at 7 p.m. at the Holiday Inn at Harriman, and the Rhea meeting will be June 27 at 7 p.m. at the American Legion Hall on West Jackson Street in Spring City.

At the two DOE meetings, the public will have the opportunity to ask questions on the studies following the presentation by DOE and Marrim Marietta Energy Systems Inc. representatives. The representatives also will be available after

each meeting.

The recently completed studies are part of a comprehensive environmental investigation of offsite surface water confamination. Information from these studies will be used to plan extensive characterization and risk assessments as part of

Speakers at the DOE meetings will include Robert Sleeman, director of DOE's environmental restoration, dividing, and Dr. Bruce Kinnmet, program menager for Markin

## Another view of the slowdown on Wath ar Lake

OAK RIDGE — it's the lack of quality facilities — not the fear of pollution — that is keep "q tourists away from Watts Bar Lake, according : Randy Jones.

Jones, general partner of Harbor Point, a new lakeside resort near Rockwood, said he was dismayed by a story in Sunday's edition of The News-Sentinel.

The page-one story chronicled the complaints of Watts Bar resort owners, who said pollution reports had scared away tourists and threatened the lake's economic life.

Jones pook-poohed that notion.

He said the term "resort" is a misnomer when used to refer to many of the lakeside businesses. Some of them are nothing more than antiquated, rundown "fish camps" that haven't been improved in decades, he said.

"It's like staying in a dadgum fish camp out of the 'Me," Jones said. They offer the same thing to people year after year. Who would provide go to Watts Bar when they could go to Nashville or Atlanta or Dollywood?"

Part of the problem is marketing, Jones said.

For too many years, the endy thing Watts Bur businesses offered to tourists was clean water, be said.

pop" programmes

Now, because of concerns raised about pollution in the lake, that single-minded approach is coming back to haunt them," Merical in

"Things are different now harm sey used to be," he said. "People, even bine-collar people, were impacale operations. You have to put some



money into the place and offer properties and offer properties.

Blaming the slowdown in track the count the pollula at revent is ridiculous, by seed.

Like some their resort owners, however, Jones that been exigned to thinks it's a clean lake. Tweer existent any cleaner water," he said. Regarders, other lakes have pollation, too, and they're surviving Jones said.

"It's not the polynom," he said. "Heck, the Big angle to rigger threat to Watts Bar than that wen football starts, the whole take is barren." Jones and he trinks the main reason someowners.

Crying is that the pollution reports have more difficult to sell their "morn and

"They assist there on their keisters from May until August," he said. "Nobody's bothering to do any thing."

ON THE SCENE: Officials from MK-Ferguson Co., the construction contractor succeeding Rust Engineering Oct. I, arrived in Oak Ridge on Tuesday in preparation for contract talks with

anion . seers.

The Department of Schedule because of Schedule because of Schedule because of Sust's habit workers represented by the oxygle Builder and Construction Trades Co.

The construction warkers returned to the job list week until a tentative agreement for 30 days, and ding the outcome of confinued negotiations.

EACE spokesman Steve Weart and MK-Fergas a officials were to be a correntation session of John meet with the labor council Tuesday. "Its just a "hello" meeting," Wyatt said. Negotiations are "on down the road," he said.

SALLING, SAILING: Nuclear pionees Alvin Weinberg said Energy Secretary James Watkins is doing someting good for DOE but may bave gone overhoard.

"I think Adm. Watkin: is right in trying to reestablish confidence in the Department of Ener-By." Weinberg said. "But I think there is the point, if you look at the scientific evidence, where the level in which people are trying to clean up goes far beyond what is scientifically justified.

"I think my point is that in cases like this, like in cases of technology in general, people are so nervous that government entities are apt to overreact.

"We are living in this age of anxiety, and everybody is scared."

A Manger covers the Department of Energy for The P-Sentimes.

### DOE sets two public meetings on pollution in Watts Bar Lake

News-Sentinet Oak Ridge bureau

OAK RIDGE — The Department of Energy will hold two public meetings next week to discuss pollution in Watts Bar Lake and related issues.

The first session will be at 7 p.m. Monday at the Holiday Inn at the Harriman exit off Interstate 40

The second public meeting will be at 7 p.m. Wednesday at the American Legion Hall in Spring City.

DOE set up the meetings because of public concerns over contamination reports in Watts Bar and other bodies of water near the Oak Ridge reservation.

A preliminary assessment identified dozens of pollutants as

potential hazards that require further study. However, the federal agency and its chief contractor, Martin Marietta Energy Systems, said there does not appear to be an imminent health threat to lake residents or those people who use the reservoir for fishing and recreational purposes.

Watts Bar resort and business owners have complained that news reports about the lake's pollution have jeopardized their economic livelihood. Environmental groups said the public has not been properly informed.

Scientists involved in the studies said it probably will be several years before a decision is made on whether a cleanup of Watts Bar and other sites is necessary.

### The Roane County News Friday, June 22, 1990 Page 5A

### YOU are invited . . .

... to public meetings on the Clinch River and Watts Bar Reservoir Environmental Remediation Program

The U.S. Department of Energy (DOE) Oak Ridge Operations will hold public meetings June 25 in Roane County and June 27 in Rhea County on studies of sediment contamination in the Clinch River and Watts Bar Reservoir downstream of the Oak Ridge site.

The meetings will include presentations by DOE and Martin Marietta Energy Systems, Inc., staff and a questionand-answer session. Potential ecological and human health risks will be discussed. DOE and **Energy Systems staff** will be present to meet informally with the public before each meeting.

For additional information, please call
Steven Wyatt, DOE
Public Information Office, at 576-0885, in
Oak Ridge.

### Public Meeting Schedule

Roane County
Monday, June 25, 7 p.m.
Holiday Inn,
U.S. 27 near I-40
Harriman

Rhea County
Wednesday, June 27, 7 p.m.
American Legion Hall,
West Jackson Street
Spring City

Meeting Agenda

6-7 p.m.-Meet with DOE representatives

7-8 p.m.-Presentation

8 p.m.-Break

8:15-9:30 p.m.-Question-and-answer session



U.S. Department of Energy Oak Ridge Operations

Later Market

### editorials

### Reports to be explained

Watts Bar Lake has gotten more publicity on a wider scale in the last few months than it has received since it was created by Tennessee Valley Authority during World War II.

That's because it is included in some of the first reports ever to be public on its condition. The reports, now required by law, deal with contamination which allegedly has resulted from the Department of Energy (nee Atomic Energy Commission) operations on the Oak Ridge reservation.

These reports have been referred to in the New York Times, on television and in newspapers and magazines. They readily admit to contaminants.

But they are not easy for many of us to fully understand and analyze. Because of the need for full understanding by the public, the studies from these reports will be explained in layman's terms at a meeting at 7 p.m. Monday at the Holiday Inn at Harriman. The speakers will be Robert Sleeman, director of DOE's environmental restoration division, and Dr. Bruce Kimmel, program manager for Martin Marietta Energy System's Clinch River-Watts Bar environmental restoration investigation.

We urge all persons who have concerns about contamination of the waters and those who simply desire to have factual information to make it a point to attend the meeting and to ask appropriate questions.

If for any reason you can't make the Harriman meeting, there will be a similar session at 7 p.m. on Wednesday, July 27, at the American Legion Hall at Spring City.

### Kimmel wants realistic view for Watts Bar contamination

by John Avery Emison Oak Ridger staff

A scientist who will make a presentation. at tonight's Department of Energy Watts Bar information meeting wants people to have a realistic view of the risk lake contaminants DOSe.

DOE will conduct a public information meeting about the contamination lake Of sediments at 7 p.m. at the Holiday Inn in Harriman. A second meeting is scheduled for Wednesday at 7 p.m. in the American Legion Hall in Spring City.

Dr. Bruce L. Kimmel, director of the DOE off-site contamination program, and coauthor of three recent reports on contamination of area waters, said too much has been made of the risk to human health.

"Some of the parties (critical of river sediment pollution) have overdone it," Kimmel said. "They've sensationalized

Kimmel asaid reports that people have been canceling resort reservations due to the resurfacing of the issue of mercury and plutonium contamination in Watts Bar Lake is regrettable. "There's no reason for that occurring," he said.

"The main thing I would like to accomplish (tonight) is basically present an overview of what we have done on the contamination of Watts Bar, Kimmel said.

"I want to make sure people understand the program we (are doing) is one that makes sense, It's based on common sense," Kimmel said.

Kimmel expressed surprise at the amount of publicity given to three March 1990 reports he and other scientists at the Oak National Laboratory authored. He said they have gotten more attention than they deserve,

Steve Smith, a co-founder of the foundation, said the group will attend and participate in the meetings.

"We have a few questions that we want to ask about one of the renorte " Smith ania

-a • A

### The Knoxville News-Sentinel

Tuesday, June 26, 1990

Page Al

### Watts Bar hearing attracts 200-plus

### Pollution is topic; concerns are aired

By FRANK MUNGER News-Sentinel Oak Ridge bureau

HARRIMAN — More than 200 people jammed a Holiday Inn baliroom Monday night for the first of what is expected to be a series of public meetings on pollution in Watts Bar Lake.

Some folks came to the meeting to be reassured about the level of pollution — hoping to hear that it's not a threat to their health or the scenic environment. Others in the audience came for the opportunity to voice their concerns and to criticize the federal government for decades of environmental abuse.

Both sides got what they wanted.

Dr. Bruce Kimmei, an environmental scientist at Oak Ridge National Laboratory, outlined the status of studies under way to monitor pollutants in Watts Bar and to assess the risk to humans.

Based on preliminary work, Kimmel said, there does not appear to be to any "short-term imminent risks." Much work remains to be done, however, before the long-range risks can be thoroughly understood, he said.

Many of the pollutants of concern, he said, fall in a category that could be considered somewhere between "acceptable" and "unacceptable" risks according to the preliminary studies.

the preliminary studies.
"It's a gray area," Kimmel said.

For some of the pollutants, there's only a 1-in-100,000 chance of a person being harmed, he said.

"We're not saying they're trivial risks. We're just trying to put them into perspective," he said.

Steve Smith, with the Oak Ridge Environmental Peace Alliance, questioned the accuracy of some of the reports issued earlier this year on the Watts Bar contamination. Smith said he thinks the reports seriously underestimated the amount of radioactive cesium discharged from ORNL and later deposited in Watts Bar sediments.

Kimmel conceded there were many "uncertainties" in the re-

Please see WATTS, page A4

### Watts

Continued from page A1

ports, but he said the level of contamination in Wats Bar is documented with core samples from the lake bottom.

"What you see is what you get," he said.

Ace Sparks, who said he was a

minister in the area, said the Department of Energy needs to move swiftly to stop people from drinking water from the lake and nearby rivers.

"These three towns (Harriman, Kingston and Rockwood) are drinking poisonous water." Sparks said. He said many of the people he visited in local hospitals are dying from cancer.

"There's an epidemic," Sparks

said. "It's got to be the drinking water."

DOE officials said state epidemiologists are planning a health study of residents in the area surrounding the federal reservation in Oak Ridge.

Another public meeting is scheduled for 7 p.m. Wednesday at the American Legion Hall in Spring City.

# DOE officials explain extent of contamination

**by John Avery Emison** Oak Ridger staff

HARRIMAN — A standing-room-only crowd of 250 gathered in the Holiday Inn here Monday night to hear the Department of Energy's explanation of the extent of contamination in Watts Bar Reservoir.

The group was also advised of several late-breaking developments relating to the environmental analysis and cleanup process.

The numerous lake contaminants, which include radionuclides, heavy metals and toxic chemicals, pose no short-term risks to human health, Dr. Bruce L. Kimmel, an ecologist at the Oak Ridge National Laboratory, said.

"We don't see anything out there that constitutes a shortterm imminent risk," Kimmel told the group.

In addition to a briefing on DOE's study process, three important revelations were made at the meeting.

First, a full-blown environmental impact statement on DOE's cleanup plan — with accompanying public participa-

tion — is "very likely," according to Robert Sleeman, manager of the agency's environmental restoration program on the Oak Ridge reservation.

Second, Sleeman said DOE has agreed in principle to fund a public health study to determine what, if any, human health consequences have resulted from the contamination. He said the Tennessee Department of Health and Environment will conduct the study.

Third, the Nashville district of the U.S. Army Corps of Engineers has put on hold all dredging and boat dock permits for Watts Bar, according to Ron Gatlin, a Corps permit regulator.

Putting a hold on dredging permits is important because dredging merely stirs up the contaminated sediments, Kimmel said. "Dredging is out. We know we should not dredge," he said.

Kimmel presented the numbers on lake sediment contamination to back up the nodredging policy.

See WATTS BAR, Page 4

# WATTS BAR: Second public hearing set for Wednesday

### Centinued from Page †

Seventy-three tons of mercury, a heavy metal neurotoxin. and 290 curies of cesium-187, a radioactive isotope - are trapped in the sediments of Watts Bar Lake, said Kimmel, who authored one of three ORNL environmental reports on the Watts Bar problem published in March. That's the good news.

The amount of mercury in Watts Bar is about half of what been released from weapons production at the Y-12 Plant over the years. Cesium in Watts Bar amounts to about 85 of the releases. primarily from ORNL.

The bad news is that another 73 tons of mercury remain on the flood plain of East Fork Poplar Creek, which winds its way through Oak Ridge after

leaving Y-12.

But the contamination of mercury and cesium in Watts Bar is concentrated at least 2 feet deep in lake sediments in the deepest parts of the lake, according to Kimmel. Hence the need to leave the sediment undisturbed.

However, this did little to dissuade members of the Oak Ridge Environmental Peace Alliance who peppered Kimmel, DOE and Martin Marietta Energy Systems officials with criticism about the research methods used in the reports as well as conclusions about the risk to human health.

Steve Smith, a veterinary medicine student and cofounder of OREPA and other environmental groups, claimed Kimmel's underestimates by 40 percent the amount of radionuclides released into area waters.

Kimmel responded that the amount released by the government plants is not as important as the amount that is retained in lake sediments. "What you measure in lake sediments is actually what's there," he said.

Other questions centered on the level of risk to people who drink well water near the lake. Kimmel said risk calculations show that it is very low.

Another individual wanted to

know the source of PCBs suspected of being a powerful carcinogen - in lake water Kimmel said polychlorinated biphenyis are a common sur face water contaminant and if is difficult to say how they got into Watts Bar.

One man offered the view that Tennessee Valley Authoria ty is the source of PCBs. "TVA a lot of (PCBs) is coming from them," the unidentified man said. Watts Bar Lake is part of

the TVA system.

Raiph Hutchinson, a Lake City resident and OREPA activist, said he believes Kimmeli and other researchers are concerned about the environment, but that "the institution" cannot be trusted. Hutchinson iden-i tifed the institution as Martini Marietta Energy Systems and DOE.

He said it may not yet be the time to yell "fire" in the the-i ater. But he added, "You should! know that the management has discovered smoke in the first i few rows,"

Two individuals expressed i concern that DOE's hazardous waste incinerator at the site of the Oak Ridge Gaseous Diffusion Plant would add to water pollution problems.

The incinerator was constructed under Toxic ! the Substances Control Act and will i burn up to 10 million pounds of mixed waste, toxic chemicals tainted with low levels of

radioactivity.

Jim Young, a Kingston area resident, childed Kimmei and others for not using the word "death" in their presentation on health risk. Young said it is death that is the risk with which everyon**e is concerned**.

A member of OREPA told the group that pollution cannot be stopped as long as nuclear weapons are produced at Y-12.

Kimmel said the next step in the environmental remediation process is to determine what type of cleanup actions can potentially be used. This will be followed with the selection of a single remediation process.

A second public information meeting will be conducted at 7 p.m. Wednesday in the American Legion Hall in Spring City.

# DOE reports Watts Bar poses no risks

BY MARK HICKS of The Journal Matt

HARRIMAN — Some residents at Monday night's Department of Energy public meeting concerning contamination in the Watts Bar Reservoir seemed relieved and satisfied with what they heard, but questions still remain.

"I think it was pretty encouraging," said Miriam Welch, a resident who has bought property along Watts Bar Lake.

What she heard was "pretty positive" as DOE officals said their studies of potentially hazardous pollutants haven't shown any imminent health risk to humans.

The officals explained their preliminary findings on cesium and mercury contamination to a crowd of some 200 people.

Bruce Kimmel, program director for off-site investigations with Marim Marietta Energy Systems Inc., said studies have concentrated on deposits of cesium-137, a radioactive substance deposited in the lake during the late 1950s.

Kimmel said cesium is easy to track. It acts as an indicator because other contaminants "stick" to it and researchers can get a good idea where other contaminants are and in what concentrations, he said.

"I feel (the contamination threat) was blown out of proportion," Bred Wells said, citing some recent stories quoting environmentalists.

The hearing was prompted by news reports of potentially dangerous contaminants in the lake, which is an impoundment of both the Clinch River and the Tennessee River. The Clinch drains the Oak Ridge DOE property.

Wells also owns property along the lake and seemed satisfied with the information he heard.

"But there's a lot of people here who might keep the pot stirred up." Wells added.

Not everyone was reassured.
"We've heard it all before," said
Leaf Myczack of the Clean Water

Project after the meeting.

He explained that his group has been working for several years to get answers to questions concerning the lake's contamination.

"They're trying to put out the fire," said Denny Haldeman, Project member from Chattanooga. "This is the first actual (public) meeting they've had ... and this has been going on for 45 years."

"I hope (DOE is) doing all they can," said Gharles Campbell of Oliver Springs, "It seems like they're moving along pretty good. But they can't do it overnight."

Campbell, who will be 67 next month, said he had fished Watts Bar Lake since the mid-'50e but stopped a couple of years ago.

However, contamination wasn't the reason for selling his boat. "You just can't catch the fish like you used to," he said.

But sometimes Campbell wonders if all those potentially contaminated catfish contributed to his health problems.

The Y-12 employee of 31 years said he recently had a prostate cancer operation and has had stomach and nerve problems.

According to DOE, about 290 curies of cesium-137 have accumulated in Watts Bar's sediment. That represents about 85 percent of all the cesium-137 released from the Oak Ridge National Laboratory since 1949.

An estimated 75 metric tons of mercury have also accumulated in the lake's sediments, or about heif the estimated discharge from the Y-12 plant since it opened in 1943, Kimmel said.

Steven Smith of the Oak Ridge Environmental Peace Alliance called some of the cesium-13? discharge figures "significant underestimations" bacause numbers from 1944-48 were not included.

Kimmel said records were not kept on casium-137 in those days and concluded that all the figures were estimations with a possibility for error.

# ver 200 crowd meeting about Watts Bar

B) HAYDEN EVANS Oak Ridge Writer

County by the Department of HARRIMAN - A public meeting was held Monday sight in Roane tamination in the Chuch River and Energy on studies of sediment can Watts Bar Reservoir downstream the government installations in Oak

Approximately 200 people from areas attended the public informaand Dr. Bruce Kimmel, program manager for Marlin Marietta Roome County and the surrounding lion meeting held in the bathroom of and Rockwood. The formal presentations were given by Robert Sleeman, director of DAE's En-Energy Systems Inc 's Chuch the Holiday Inn between Harrimar vironmental Restoration Division River/Walts Bar environmental restoration arrestigations.

Paul Page, assistant editor of the Reane County Neas, served as speakers. Several DOE/MMES staff members assisted in answering questions in their specific areas of moderator and introduced

speakers showed a series of slides famination resulting from past DOE defice and so posental experient designed to explore the extent of preliminary studies on cesium and mercury conoperations and waste disposal accontaining facts, figures and graphs concamination in the Clinch River and the Watts Bar Reservoir in-The presentation focused recently completed

contaminants include radioactive elements, beavy metals and/or organic compounds. Based Cimmel and their supporting staff rpon the preliminary studies, it was the consensus of opinion of Sleeman. that there is no ununinent risk to the sublic as a result of the contaminaKimmel, in response to a direct question regarding whether or not be would go swimming, drink the rater and eat the fish from Watts Bar, replied, "Yes. I have been do ing them regularly and have said so many times

Kimmel summed up his presenta-tion by declaring, "We know we don't want to dredge, there are no short-term immment risks based information known at this estigation is under way and shead contaminants reported bed more evaluation, and the in-Schedule Ę

acilities in Oak Ridge were leaked ginning in the early 1990s. a ariety of contaminants from DOE's Iservour. DOE is now envestigating do the Clinch River and Watts Bar contamination under the vironmental regulations. Potential afternatives for cleanup will be based, in part, on this investigation. A dination with state and federal framework of existing federal en cleanup strategy will be developed will be developed with public uppul and in close coorregulatory agencies.

environmental in-Three preliminary scoping studies were recently completed. The reports assess the extent of convestigation is in the first phase.

from the Oak Ridge sites and the ecological and human-bealth risks information in the reports is derived from previously published studies tamination of sediment downstream associated with the contamination and newly generated data.

The amount of contamination in Vatts Bar Reservoir sediments was determined by assessing the at ORNI. The areas included in the scoping studies were Melton Hill Reservoir. Clinch River below 190 surface sediment samples and or sediment cores. Cesium-137 is a radioactive isotope, a byproduct or research and development activities Welton Hill Dam, White Oak Creek embayment, Poplar Creek embayistribution of Cesium 137 from over nent and Watts Bar Reservoir

This represents approximately 85 percent of the total Cesium-137 For the entire Watts Bar Reser voir, about 200 curies of Cesium-137 have accumulated in the acdiments released from ORNL into the river system since 1949.

An estimated 75 metric tons of servery have accumulated in the eservoir sediments, which account ir about 50 percent of the historical Clinch and Tennessee River chanstamination to Watts Bar is found scharges from the Y-12 Plant

The preliminary scoping study in dicates that the crisinn, mercury and other contaminants are contained in the sediment at an average depth of 2% Enches from the cortact the sediment Contamination

however, does extend in varying concentrations throughout the Heservoir. Detailed risk assessments will be conducted to more accurately indephuman-bealth right. These studies tify polestial environmental and

will provide a compromissive in vestigation of offsite surface water confamination

ment and fish are being obtained Additional samples of water sed-

Please see Watts Bar, Page 2-A



INCX, at left, was one of the citizens who questioned DOE and Narba Marietta reports about Watts Bar Lake contamination presented Monday night during a public meeting at the Holiday Ing. Harrinan Over 200 people crowded the lecal facility, including atternery Gerald Larger and Jean Meredith above both aduncates for a cleaner environment. See additional photos, Page 1.A. (Staff inhotos by (ROANE COUNTY NEWS 6/27/90)

# Watts

and analyzed. Information from all studies will be used to plan extensive characterization and assessments as part of a future environmental cleanup program.

A sizeable delegation from the Oak Ridge Environmental Peace Alliance was present at the meeting as well as representatives of other environmental groups and individual environmental activists. Almost all of the questions asked and comments made were by the environmental activists. In fact, they dominated the question-and-answer period even to the extent of showing a series of slides and preceding each question with a lengthy statement of their personal views critical of the federal government for environmental abuse since the early 1940s.

Emotions ran high, but it was, after all, a public meeting to afford any citizen the opportunity to ask questions regarding the studies of DOE/MMES on the status of the contamination in the water.

The Oak Ridge Environmental Peace Alliance representatives challenged DOE/MMES studies practically across the board. The Alliance's finding showed that the DOE report grossly underestimated the amount of radioactive Cesium-137 released into the Clinch River, Instead of the 665 curies of cesium reported by the government. the Alliance had figures showing that 930 curies of Cesium-137 had been released over the past several decades. According to the Alliance, the finding not only pointed out a key

discrepancy in the DOE assessment of the fadioactive impact on the Watts Ber Reservoir system, but it also called into question the thoroughness of the scientific evaluation undertaken and the entire scientific process.

The Environmental Peace

Alliance faulted DOE for relying on institutional data developed when public health was not a priority concern for the government and its contractors Evidence was cited of an "Institutional bias" ingrained over years of operation in Oak Ridge which would seek to ask, "How bad isn't it?? rather than the more objective, What are the facts?"

It is the Alliance's position that there has been a failure to involve the public, to provide for independent amilysis or adequate peer review in the process of developing the various DOE reports.

The Alliance states that the leachingiof radioactive waste from six radioactive landfills and numerous liquid radioactive waste pits and trenches continues in 1990; further, that these sources have been the primary sources of radioactive releases into the Clinch River.

Finally, the Alliance believes that it is not possible to confidently accept the reports of MMES unless they are subject to public comment. peer review and independent anaivais.

The Alliance's findings were based upon information contained in study reports provided earlier by DOE/MNES.



ABOUT 208 CITIZENS attended a meeting at the Holiday Inn in Hairiman Monday night to hear about Clinch River and Watts Bar Lake clean up efforts by the Department of Energy and Martin Marietta. Oak Ridge Environmental Peace Allience members like this man questioned some of the figures which DOE and Martin Marietta officials presented.



NEWS ASSISTANT EDITOR Paul Page, above, moderated the Monday meeting, which brought out a number of protestors, like Leef Myschek, right, holding up a sign for the camera.

Staff photos
by Pat Hope





DR. BRUCE KIMMEL, left and Robert Sleemen, right, answer questions about contaminents in the Watts Sar Reservoir at Monday's

public meeting held in Harrimen. A similar meeting will be held in Rhan County transact at 7 n m.

# editorials

# Water woes leave thirst for trust

As a young girl learning to swim in Watts Bar Lake near Caney Ford, I don't remember anyone ever telling me not to go into the water because of mercury or Cesium-137. I do remember a few snake stories and the danger of stepping off into deep water or a story about the swimmer who drowned from being caught in a "whirlpool."

As an adult, I have taken a lot of kidding about living near Oak Ridge. I've heard all the comments about "glowing in the dark," and "being the target for Russians." I've also seen hundreds of people work and retire at Oak Ridge, and I've known hundreds more who would give anything to be employed there, such threats not withstanding. Some of these people were perfectly healthy, and some were obviously not, pretty much the way it is most places.

At Monday night's public meeting about the contamination in Watts Bar Lake, the officials from Martin Marietta Energy Systems Inc. and the Department of Energy took a lot of heat. The nearly four-hour event turned out to be little more than a forum for area environmental groups. One woman who asked a question was almost apologetic that she was not with some group.

Personally, I felt comfortable with Dr. Bruce Kimmel's comments. He has said over and over that he fishes and swims and plays on Watta Bar like the rest of us. The very nature of his job puts him in touch with the lake on a daily basis. Like me, he has lived and worked here for a number of years and associates any "risk" as part of living, not part of dying.

Personally, I'm a little dismayed by people who want a "100 percent" guarantee. Name me one job or environment that doesn't carry risks. At the newspaper, there are chemicals and machines that could injure, cripple or kill me. So would there be if I drove a coal truck or worked at a plant in the industrial park or repaired televisions or serviced vending machines or stayed home.

As editor of the Roane County News, I must put personal feelings aside and look at the total picture. Evidently, the environmental groups have legitimate concerns and questions. Obviously, all speakers put a lot of time and effort into preparing the information which they presented.

Like it or not, Rosne County is in the

middle of all this. As Roane County's hometown newspaper, it's our job to report the facts. You'll find them in the front page stories we print about incinerators, landfills and yes, pollution in the lake. Despite the claim of a Knoxvilla television station that all this is somehow new and unreported, Watts Bar has been around a long while and the Roane Count ty News has been covering lake-related stories, both good and bad, since 1959) We've shown both sides of this lake contamination issue Several times . . . from traveling on rainlogged boats to take pictures of sunken signs, to following marchers through their demonstrations, to seeking out answers to vaguely worded reports.

Did Monday's meeting help the public to understand the Watts Bar situation any better? Maybe. Maybe not. But several facts can be sifted from the broken hourglass. Officials of Martin Marietta and DOE say there is "no immediate danger to public health, based on current data," The people who have researched that data; the people who are continually researching that data: the people who wrote that data; and the people who have presented it to us over and over again, live here. They also swim in the lake, fish and boat here and drink the water.

At some point we have to trust someone. Should we hang the messenger because he can't give us a 100 percent guarantee that the water we're drinking is pure? Should we take DOE and Martin Marietta officials out to the woods and shoot them for something their predecessors did?

I refuse to believe that every individual and official who has ever worked at Martin Marietta, Union Carbide or DOE is "out to get us," or is deliberately "dirtying our water."

They have admitted their findings are preliminary. They have said they are not only cleaning up past mistakes but trying to be sure that the ground and water are not further contaminated.

Granted, there are still things we don't know, and cleanup efforts are needed. We can continue to learn and improve on what we've already done, or we can all become like "chicken little" and proclaim to the world that the sky is falling, when in fact, a simple acorn may have fallen from the tree.

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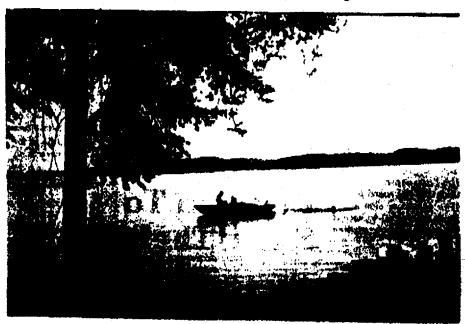
Rhea County Reporter

Volume II. Number 85 / Wednesday, June 37, 1980



Spring City, Tenn.

# Watts Bar Lake Poses No Health Threat - DOE Says No Risk



Beautiful Watts Bar Lake has officially been deemed 'No Risk' for swimming, fishing, water sports or human beaith by Oak Ridge officials after intensive government studies.

by Rite Moore ....

Amidet much skepticism from the audience, US Depart. ment of Energy and Martin Marietta officiale still insist there is "No immediate risk" to you, the public, from contaminates in Watts Bar Reservoir.

At a Public Meeting Monday, June 25, held at the Holiday inn in Harriman, Dr. Bruce Kimmei, Program Manager for Enord), Systems' Clinch River/Watta Bar environmental restoration investigations, showed slides deploting the resuits of government studies to approximately 250 people. Kimmel quoted the findings for Watts Bar to be 5 chances in 10,000 to find PCBe in fish; 2 in 100,000 of finding arcenic in fish; and 1 in 100,000 of finding Cesium 137 or Cobais 60 in surface sediment. Kimmell said. 'remember, we're talking of 89,000 square mules of surface

Kimmel said contunt reacts with the environment like other contaminants do and is very easy to detect. Finding casium gives researchers a good idea where other concentration is, he said. Kimmel said the prelimihary scoping study indicates that the cealum, mercury, and other contaminants are contained in the sediment, at an average depth of 30 inches from the surface, buried deep in the muck, with highest concentre. tions in the doepent part of the old river beds. He said Watte Bar showed 37 parts per million found deep down in the sediment. Kimmel said, "we should not dredge: this cannot be removed by the dredging process."

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shown in reports issued in the '80's over the ourrest statistics, Kimmei said, "We took sediment tests of the actual materials and what you see to what you get, it is what is actually there."

Although all the reports showed there is no health risk, which was also accepted by the nations health and safety group, spectators remained concerned as to whether they, 'were telling us the whole etery," and "if it is REALLY safe."

The Oak Ridge facility was built during World War II to help make the first atomic bomb, and contaminates were duniped in the 1040's and 1950's in Bear Creek, Poplar Creek, and holding tanks, which then entered the Clinck River and on into Watte Bar Reservoir. Kimmel said it will take 80 years to completely cleanup the waters, at a cost of billions

of dollars.

In December of '89, the area was put on the National Priority List for cienup. On June 22,1990, the BOE announced that a major five year research program has ten initiated at the Oak Ridge 7-12 plant to reduce by 80% the amount of uranium waste generated in government metal manufacturing installations, as identituring installations, as identified in Secretary of Energy James D. Westins' Environmental Restoration and Waste Management plogram, the Department's blueprint for cleaning up DOE facilities.

Operated for DOE by Martin Mariette Energy Systems, Inc., Y-12 will be the initial site for the program, acting as a focal point in demonstrating how uranium waste ban be reduced through new methods of matal purification, shaping, and recy-

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Simultaneous meetings were held at Watts Bar Resort on Highway 68-Bast, Tuesday andi Wednesday Evening morning, June 26 & 27, with State Representative Shirley Duer and the House Conservation Committee on the issue of pollution and the impact on Tourism for the lake recort owners, Results of these meetings were not available by presentime, but will be reported in next weeks edition. All meeting are open to the public.

For more information on DOE environmental remediation programs, please call the DOE Public Information Office at (615) 676-0845, Steven Wyatt, or Jim Alemender; or write to the same office at P.O., Box 2001, Oak Ride, TN 37881-

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The recently completed studies are part of a comprehensive environmental investigation of off-site surface water contamination. Information from these studies will be used to plain extensive characterization and risk assessments as part of a future environmental cleanup program.

The public will have the opportunity to ask questions on these studies from the representatives following the presentation. The public will also be given the opportunity to meet with the representatives before and after the meeting.

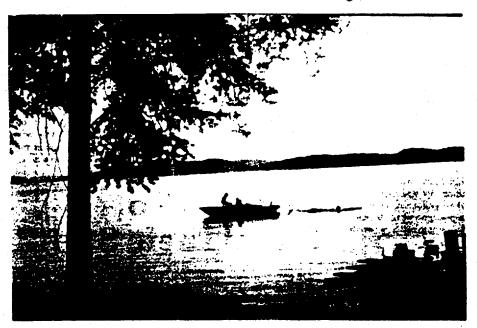
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### **OUR VIEWS**

# Making environment a high priority at DOE

The Department of Energy conducted Wednesday the second of two area public information meetings on pollution in Watts Bar Reservoir.

The source of contaminants, including such substances as arsenic, polychlorinated biphenyls, mercury, cosium-137, strontium-90 and plutonium, is DOE's facilities on the Oak Ridge reservation.

It is indeed of concern that 146 tons of mercury have been released from the reservation — primarily from the Y-12 Plant — and that half is in the flood plain of East Fork Poplar Creek and the other half is buried in the sediments of Watts Bar Lake.

It is also important to keep the problem in proper perspective.

Scientists at the Oak Ridge National Laboratory who have studied the contamination problem in detail — and are planning for even more detailed studies in the near future — assure us that there is no imminent risk to human health.

History tends to support this assertion.

Most of the mercury and radionuclides buried in the mud beneath our truly beautiful waters were released into the environment in the late 1950s and early 1960s.

That's about 30 years ago. It would seem that if we were going to begin dropping like flies — and that's

what some of the shrillest critics of DOB imply — we would have been doing so for quite some time now.

But there is a more important issue in the current controversy than blame and doom.

We are quite delighted to hear DOB acknowledge responsibility for the mess it made. We are equally delighted to see the agency taking action to clean up the mess and make certain that it doesn't happen again.

The current study process has as its goal a determination as to whether the Watts Bar pollutants should be somehow removed, or whether it is simply better to leave them alone.

This process is being completed in a remarkable public environment with little opportunity for anyone to fudge on the facts.

Even more encouraging is the fact that the plants on the reservation have greatly reduced the amount pollutants that move off-site.

The closure of the S-3 ponds — a natorious source of radioactive pollutants — has been accomplished and should reduce the amount of pollution leaving the reservation.

We salute DOE for owning up to its environmental responsibilities. We hope the environment continues to be a high priority for the Oak Ridge Orientions office.

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The Oak Ridger June 28, 1990 P. 1 → *514*4

# DOE pleased with public hearings on Watts Bar

by John Avery Emison Oak Ridger staff

Department of Energy officials and scientists who have studied contamination of Watts Bar Reservoir are pleased at the results of two public information meetings this week.

"We met our objective, which was to answer questions about poliution in the sediments of the Clinch River and Watts Bar," said DOE spokesman Steven Wyatt.

Wyatt — who attended the meetings in Harriman on Monday and Spring City Wednesday evening — said he was pleased that the combined attendance approached 400.

"I was pleased that we had such a good turnout," Wyatt said.

"It was our intent to open this issue to the public," Wyatt said. He emphasized that the meetings are "just sort of the beginning in a way, because we will hold additional meetings on the cleanup process."

Dr. Bruce L. Kimmel, a coauthor of one of three environmental reports on Watts Bar pollution, presented findings at both meetings.

"By conducting the meetings, we have been able to get a little more complete information (about the extent of pollution and the risks to human health) out to people," Kimmel said, an ecologist at the Oak Ridge National Laboratory.

ORNL is one of three DOB facilities in Oak Ridge from which the contaminants came.

Speaking of Wednesday night's meeting in Spring City, Kimmel said many of the people who attended were boat dock and resort

See HEARINGS, Page 4

The Oak Ridger June 28, 1990 P. 4

# HEARINGS: Officials will meet with NAACP tonight

Centinued from Page 1

owners who "are being hurt by the publicity that has taken place."

Kimmel said an important point in the reports that he restated at both meetings is that the assumptions regarding human health are very conservative. "The assumptions we made (in the reports) were designed to err on the side of human health," he said.

The three reports, published in

March by ORNL, detailed pollution levels of toxic chemicals, heavy metals and radionuclides in the sed iments of the Clinch River downstream from the Oak Ridge reservation and Watts Bar.

Kimmel said further testing of sediments will help researchers determine whether the contaminants should be removed.

About the only way to remove contaminated river and lake sedi

ment is to dredge it up, according to Kimmel. There are various dredging techniques and some are less dirty than others, he said.

One alternative may be to leave the contamination where it is because the largest concentration appears to be under 2 feet of mud in the deepest part of the lake, Kimmel said.

A similar presentation on DOBsourced pollution will be made tonight at a public meeting of the Oak Ridge chapter of the National Association for the Advancement of Colored People.

# Risk communication

# Watts Bar information exchange goes two ways

Dr. Bruce Kimmel of Martin Marietta Energy Systems Inc. derserves a medal for his even-handedness in presenting the current status of the Department of Energy's studies on contamination in Clinch River and Watts Bar Lake to an audience, many of whom were hostile, Monday night at the Holiday Inn, Harriman.

Like Kimmel, Bob Sleeman of DOE and the rest of the environmental restoration party kept their "cool," in the face of environmental activists who derided their scientific evaluation as well as the whole scientific process.

However credibility remained on the side of the men from MMES/DOE since they seemed to be the only active, qualified scientists in the room. They explained their scientific data by visual aids and answered the many emotion-laden questions calmly and as meaningful as possible.

The point that the offsite investigation is in its first phase with much more work ahead needed to acurately identify environmental and human-health risks seemed to be lost on those who already had their minds made up.

The environmental groups hogged the limelight from the moment the floor was opened for questions. Few Roane County citizens, especially property owners, went to the microphone to ask questions. The activists, mainly out-of-towners, quickly dominated the proceeding and turned it into a forum to vent their displeasure with the establishment.

The establishment, of course, is government at all levels and private industry, particularly Martin Marietta and its predecessors at Oak Ridge.

On the other hand, frustration has been building among the public for several years. People don't know whom to believe. Today, after the Three-Mile Island nuclear accident, the chemical leak in Bhopal, India, the Valdez oil spill and local problems with in-



Over the Ridge

by Hayden Evans

cinerators and landfills, many believe the communication process has broken down.

In this regard, we must give DOE/MMES credit for their attempt to improve risk communication with the public by making the recent presentations in Roane and Rhea counties, June 25 and 27.

Scientists become distressed because the media and the public misinterpret their complex research. Risk communication is a

two-way street. It's an interactive process of exchange of information and opinion among individuals, groups and institutions.

In the past, government and industry officials have generally thought of risk communication as a one-way message delivered from experts to non-experts.

Many people have unrealistic expectations about what can be accomplished in environmental restoration. Although good communication can't always reduce conflict and smooth risk management, failure to communicate with the public will always make matters worse. DOE and Martin should continue to keep an open dialogue with the people who may be affected by the potential risks.

One must keep in perspective that nationwide DOE has embarked upon a 30-year cleanup effort that will cost billions to correct past environmental and safety neglect.

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One must keep in perspective that nationwide DOE has embarked upon a 30-year cleanup effort that will cost billions to correct past environmental and safety neglect. By PAUL PAGE Assistant Editor

KINGSTON - Routipe air and water discharges from the Oak Ridge reservation are 'twell within guidelines established by various regulatory authorities," savs the Roane County Envisonmental Review Board.

It made the comments in a report requested by County Executive Ken Yager.

But the report also expressed congern about "the potential for quiastrophic releases" and suggested "it is in the best interest of Roane County's residents to en-courage the Department of Energy to provide sufficient funding and staff resources to complete the study (of contamination in Clinch River and Watts Bar Lake) as soon as possible."

The report dealt with the Oak Ridge Reservation Environmental Report for 1988 and with a briefing 6/29/90 Page

conducted by Jim Rogers and Dr. Bruce Kimmell of Martin Marietta Energy Systems Inc. Dr. Kimmel also was the chief speaker at a public meeting conducted by DOE at Harriman on June 25 and another at

Spring City on June 27.

The report was signed by Arvin S. Quist, chairman of the committee, and reminded that "while we believe this is a fair review, you should be aware that three members (including the chairman) of the board are Martin Marietta Energy Systems employees."

The text of the report is as follows: 'The 1988 report and the Energy Systems presentation both suggest that routine air and water discharges of radioactive materials and toxic chemicals from the Oak Ridge-Reservation are well within guidelines established by various

regulatory authorities.

The Board finds no reason to question this suggestion. However, neither the report nor the briefing addressed the issue of the potential for catastrophic releases. Such releases have occurred in the recent past, causing the temporary shutdown of affected water treatment plants. The Board, therefore, suggests that one issue of concern to

Please see Limits, Page 2-A

Roane County is adequate public notification and monitoring of such releases.

The major environmental concern stemming from Oak Ridge Reserva-tion operations is the historical discharges of heavy metals, toxic organic chemicals, and radiosctive elements that have been incorporated into the sediments beneath Watts Ban Reservoir and remain as a buried legacy, 600,000 or integral Anti-continuous AMITO escapinasi

the first phase of a multi-year program to characterize the extent of such buried contamination and its potential. effects on the general public. Virtually, all of the buried contamination is upstream of Watts Bar Dam and is thus of concern to Roane County. The study presented appears to be well

The Board suggests have it is in the best interest of Rosse County's insidents to engourage the Department of Energy to provide sufficient funding and staff resources to complete the study as soon as possible. The Department of Energy should also be encouraged to release information from the study as at becomes

available to take a proactive stand in assuring that the public is adequately appraised of study results -good or bad.

"Certainly the Board will review reports as they are issued and may request further public briefings as appropriate."

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# Environmentalist is guest at Kiwanis Club meeting

The Kiwanis Club of Oak Ridge will have Bruce Kimmel as its guest speaker on Tuesday at 6 p.m. at the Holiday Inn.

Kimmei, who is program manager for off-site investigations for the Martin Marietta Energy Systems environmental restoration program, will present an overview of "The Clinch River-Watts Bar Reservoir Remedial Investigation."

He has been a staff scientist with the Environmental Sciences Division at Oak Ridge National Laboratory for 10 years and he and his family reside in Oak Ridge. Kimmel received his doctorate in ecology from the University of California at Davis, and was assistant director of the Biological Station for the University of Oklahoma.



... Bruce Kimmei

# 'Thumbs up' given for lake

Watts Bar Lake received a 'thumbs up' from the Department of Energy and Martin Marietta Energy Systems Inc. officials at a recent public meeting. The news was really no surprise. The real surprise at the meeting was the use or "misuse" of the First Amendment rights to free speech by an organized vocal minority. By dominating the questionand-answer part of the program, they left little if any time for others to pursue questions. In fact, many, including my wife and I, left the room when it was apparent that banner waving, shouting questions and answers, badgering speakers and the exhibiting of an attitude of wanting attention is the motivation for being at the meeting.

The fact is that even if this well-organized mobiled legitimes points of concern; their negative approach overrode, the goods they might baye accomplished our level appear. It is sad that in the name of free speech, many of us were held speechless:

The whole point is that we have a thumbs up! for Watts Bar Lake!

CONTRACTOR STORY AND A



### Chamber Channels

by Jim Bilyak, President, Roane County Chamber of Commerce

# More dredging on lake unlikely, authorities say What about Watts Bar?

EDITOR'S NOTE: Because Watts Bar Lake is quite literally the lifeline of the county and because so much controversy has been focused on the lake in recent weeks, the editorial staff of the News set out to ing water? Dredging? Swimming? Boating? Fishing? Land values and of life? Today's article on dredging by assistant editor Paul Page is the first the News will publish over the next several weeks. "What about Watts Bar?" We welcome your letfind the facts. What about our drinkother things which affect our quality ters, concerns and comments.

By PAUL PAGE

recently, the Corps of Engineers has no plans for an additional lock on reports which have been circulating Assistant Editor

Watts Bar Dam, according to Corps officials here.

John Case of the waterways management branch said the Corps have had some very preliminary hat is as far as things have gotten to and Tennessee Valley Authority conversations on the subject, but

Lake which it could necessitate have been mentioned at public meetings several times recently in connection with pollution of the lake and the Clinch River. The meetings have been held by the Department of vironmental concerns as contained in a report from Martin Marietta The possibility of the additional ock and the dredging of Watts Bar Energy in connection with en-Energy Systems Inc.

Case confirmed, however, that

another office within the Corps has plications placed by individual property owners. He said figures on the number of applications which are pending was not immediately placed a "hold" on all dredging apavailable.

on any scale being planned by his department in the near future. The Corps is responsible tor the maintenance and operations of Case said he knew of no dredging locks, and TVA has responsibility for other circumstances at the dam

which could require an Tapproach dustry, had conducted some talks in the "early planning stages" about channel" But he added no target date had been set for a decision on He confirmed the Corps and TVA. in cooperation with the towing inan additional lock at Watts Bar

years" before the agencies could come to a conclusion on whether to the matter. "It could be several undertake the project, he said.

would be to stimulate barge traffic Goal of the project, if undertaken. on the Tennessee River

contaminants its studies have found in the bottom of the deep channels and that Watts Bar Dam serves to rontain them. However, at the meetings there have been reports of have pointed out that much of the in the Clinch Kiver are in sediment some contaminants being found The 100E environmental reports

operation of DOE facilities at Oak The reports deal with 40 years of

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"The lake is an efficient sediment trap," Lemming continued. "It's there in the deep sediment, and that's what we have to look at now in terms of cleanup. We know it's (the water) better, but we want to go in and finalize the studies and reduce the uncertainty and come back to you with a firmassurance," added Lemming.

Gary Meyers, director of Tennessee's Wildlife Resource Agency, agreed saying, "One thing that has focused the spotlight on Watts Bar and DOE is that DOE is now complying with a federal process, a corrective process, for cleanup, which dictates a release of information and press releases. But in these news releases and data DOE has released to date, there is no new information. All of these (data) have been on the street some five and 10 years."

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## Over the Ridge

by Hayden Evans

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Rep. Shirley Duer

"I don't think that we can do anything to salvage this tourist season," said Duer. "! think it's tragic. The contamination hasn't changed in 20 years. What's there has been there."

"The only change has been our reporting of it. Watts Bar did not suddenly become contaminated overnight. The contamination is no more than in other lakes in other areas," said Duer.

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SAIC divisions now housed in separate facilities into a central location."

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# What about Watts Bar? Property owners 'not too worried'

EDITOR'S NOTE: This is the second in a series of articles about Watts Bar Lake. Because of the extreme importance of the subject to the economy of this area, and to the people who live and work and play near it every day, the News editorial staff hopes to be able to provide answers to the many questions left in the wake of recent 'negative' publicity about the lake. We welcome your letters, suggestions and comments.

By CYNTHIA GARRETT Rockwood Editor

ROCKWOOD — Recent publicity about the possibility of contamination in Watts Bar Lake has made resort owners more aware of alleged hazards, but they don't seem concerned about the affect it's having on their business or their health.

Brothers Ancil and Elzo Newport, owners of the now-closed Newport Resort just over the Roane County line in Rhea County, are not concerned in the least about lake contamination in their section of Watta Bar.

Ancil Newport said, "I think we have less contamination here in White's Creek than anywhere on the lake. We're two-and-a-half miles to the river, and there are nine freshwater streams that come in. That makes White's Creek embayment contamination free."

Elzo Newport agreed with his brother, saying, "I'm not worried about contamination. The reports they've given for 15 years have said there is little (contamination) in the river, but it's in the deep sediment."

Both Ancil and Elzo said they eat the fish out of Watts Bar and will continue to do so.

"I eat all I can get," Elzo said, adding, "I've got 'em in my freezer

now and I eat them at least twice a week. I don't have any health problems."

'I'm sure there's some contamination, but it's well within the acceptable guidelines. All our boatowners are using the lake as much as ever.'

Betty Wallace, owner Caney Creek Marina

Fred Zeller, owner of Eden on the Lake in Spring City, thinks the threat of possible contamination has affected his business somewhat, but he's not sure how much.

"Business is ahead right now, but possibly for other reasons. I think there has been a negative effect related to fishing. That part of the business is off some but I'm not sure how much can be attributed to that (lake contamination)."

Zeller thinks the most likely areas to be affected by all the recent publicity are fishing and tourism.

Although he is concerned about

the environment. Zaller said he doesn't feel differently about the lake than he ever has "I don't fish, but I do eat the fish, and I accidentally get in the lake when I fall in going after tools or drills or something. I have five grandchildren that were here last year and they'll be here this year, too.

"Unless you are fish four times a day and are the skin on the fish. I don't think it would be a problem."

don't think it would be a problem.

Zeller thinks much of the problem can be attributed to the media. "I think the media looks for sensationalism because that makes better headlines. If print is light, they pick up on something to get attention. I think the water is cleaner than it was five years ago."

Publicity has created an interest and growing concern from people who frequent Zeller's camping, boating and swimming resort. "I get questions on it that need to be answered. It indicates a concern on the part of that person. I get phone calls some, too. They il say, "Tell me about the fishing."

Zeller feels the good flow of water in and out of Eden, located about a quarter-mile off the giain channel, has a cleansing effect?

His wife Phyllia Zeller feels the same way. "I know people did some things wrong in the past. But mercury is heavy. It's not going to do anything. There's no radioactivity. It's buried 3 feet under.

"It has a certain life to it and it's aimost dead now. It's been down there since the '40s or '50s. It's a shame that they've used that to scare people. The only thing the water has in it is PCBs. All lakes are coping with that now, scientists still aren't sure."

Please see Lake, Page 2-A

# from page

# Lake-

pollutes the take. Also, things like passine from boats does more polluting than anything.

"H's a crime to scare people to be these other contaminants that are yet into the late. "You have to watch what people are putting in to it, like fertilizers. That's what really Mrs. Zeller is more concerned

Spring to worry about the mercury shal's 3 feet under.

How this consisten has affected \* "It's a crime to scare people to be Mraid of their own take. I'm sure not

How this situation has affected Susiness with the increase in public

teresting to see what happens, for the rest of the season. People will get the word-of-mouth that it's all right."

Comments about resort owners not making any improvements to their businesses being the cause of awareness is "hard to evaluate," Mrs. Zeller said. "It will be in-

ed Eden, Zeiler has added over 30 boat slips, added 32 trailer locations slow business misses the mark by a During the five years he has ownfor camping, built a bath and shower long shot, according to Fred Zeller.

waits, began selling panton boots and providing service, added smalte the swimming beach, added a winter-time gravel boat hunch to complement his automer-time ec-ment boat launch and developed the souse, added two rental apartment playground area.

"Like any business, you have to improve and make it better. You Rahm Mongan of Crossville has can't stand still. I don't want to be the biggest, just the best."

been going to Eden on the Lake for 22 years. "We camp here every weekend. We swim, ski, innertube and fish."

is Morgan concerned about the threat of contamination? "We think it's all politics. It happened 25 years ago and they're just new finding out? Somebody's been askerp.

here since we were 16 or 17 K's too late now." Henline isn't concerned Doc Henline, also of Crossville, agrees. "We've been switning about eating the fish, either. "We us ed to have a fish fry at the station

(I-th Gulf in Crossville) just about every week during crappie season."
The Hentimes and Mongans said they'll keep using the take "until they post it."

Pat Saterfield brings ber family from Chatsworth, Ga. almost every weckend to enjoy Watts Bar Lake. She's heard about the possibility of contamination through the media. because they eat off the bottom of the lake. It doesn't bother me. Maybe it should, but it doesn't."

Margie Copeland of Crossville was a little worried when she beard reports about the lake. "But after I read articles saying the water was rafe, I'm not worried. Yeu bear so march you just really don't know.
"How much chemicals do you get

Where did they take the samples? If I could take the test myself — if DOE in the chlorine in a pool? In the food would distribute test kits and I saw the results for myself, I might stop re call! Here the water is refillered

Even though Copeland is not con-cerned, she admitted that her sisters-in-law won't let their B children swim in Watts Bar Betty Wallace, who owns Caney Creek Marina in Midtown along with her husband Don, said she doesn't think her business has been hurt any by the publicity.

by and we've been as busy as we've "Business has been as good as it has at any other time. Normally my best time of year is the Fourth of Juever been

Wallace isn't too converned about "Whatever's in there has been there for the last 15 years. If it's not hust us yet. I don't see how it's going to the threat of contamination.

acceptable guidelines All our boatowners are using the lake as tamination, but it's well within the "i'm sure there's some con much as ever. ment as now

Wallace thinks the thing that has hurt the fishing business the most is that "rockfish have eaten up all the

good fish

ed on the docks. The office has been Evidence to refute the report of a lack of improvements at area resorts is easily seen at Cancy Creek The old 18 inch dock has been replaced with a 4 foot dock with concrete covers, and an electrical system and water have twen installrepaneled, rerunted and refluored. and a kitchen has been wedalled

we're living, even if we don't make a lot of morrey. Wallace said business, but we re staying here and that pur mount is an arm a.M.,

Randy Jones, owner of Harbour Pointe Marina in Rockwood said he's just put over a million and a half dollars into his business, and the threat of contamination "has not af-

Watts Bar, swins in the take and is is the cleanest lake I've ever seen. If I thought there was something Jones said he eats the fish out of not in the least but concerned. This wrong with the take, I wouldn't be fected us at all."

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# Watts Bar issues: Unfounded fears, conservatism

I've just attended the public meeting at Spring City. As you will gather from this and the next column. I have reached somewhat different conclusions about the contamination of the Watts Bar Lake. and the needs for future action.

But first, I must report to you how competently, calmiy and carefully the Department of Energy-Martin Marietta Energy Systems-Oak Ridge National Laboratory team made its presentations and handled the questions. I heard many appreciative comments among the audience. Overall, the meeting seemed to be better structured and received than the first one at Harriman.

Let's first discuss the reported radioactivity in the lake. Regardless of facts or figures, radiation seems to scare people more than the polychlorinated biphenyls or the mercury. With all the media hype, most people still don't have any idea just how "hot" the bottoms of Watts Bar Lake really are.

So lot's try to avoid fancy definitions and finits. (And if you are one of those funny people who have been asking us shore dwellers whether we glow at night, I would like you to pay particular attention.)

Most of the radioactive stuff (cesium) seems to be layered about a yard under the mud surface, along the center channels of the Clinch River above Kingston, and of the Tennessee River below. (Less has been found at Kingston itself.)

Now let's suppose you trained yourself as a champion diver. bought the needed special equipment, got to the bottom of the channel, dug deep enough to include that "hot" layer, brought all that up, and somehow built yourself a self-supporting, full-size mud statue. And then you hugged that statue just as passionately and long as you would your human partner. (Please don't ask me why.)

Believe it or not - the radiation dose that you would receive would be only about one-twentieth of the dose you would get from a similar hug with your regular partner! (Yes, with nature's compliments. our bodies have always contained traces of radioactive potassium-40. And, lo and behold, these traces far outweigh the traces of ra-



Hurdles and Horsesense John Shacter

dionuclides in the mud!)

I hope this form of the answer may provide some additional understanding regarding direct contact with the mud. That's why I asked some friends at ORNL to make this rough, back-of-the-envelope comparison. It is bound to be checked now, and I'll certainly tell you if it needs to be modified in any way. (Of course, if you decided to BAT the mud, we'd have to make another calculation! So let us know before you do.)

We are getting into the challenge of effective communications between experts, policy makers and the public. So let me touch on another potential misunderstanding

among these groups.

Most professionals, including scientists and analysts, have been trained to be "conservative." Thus, especially in matters of safety or the environment, they are likely to make "worst-case" assumptions. In the meeting, as they displayed their various risk estimates, the speakers certainly emphasized this point. Yet - though it might have been music to the ears of an antinuke — I believe its significance was largely missed by the media and the public.

Most of you will probably agree that our whole society is now facing an enormous array of major problems or challenges - which are usually beset with great uncertainties, very expensive solutions and definitely limited resources.

There are the many needs of untended or mistreated children and adults, of education, of acquired immune deficiency syndrome and other diseases, of crack, sex and crime, of babies having babies, of gang warfare and decaying cities, and of bulging prisons and treatment centers. Even within the environmental category itself, we face the challenges of global warming (greenhouse effect), of acid rain, of ozone depletion, of deforestation and desert spread, etc.

Regardless of the sincere but naive claims of each single-issue advocate, we obviously won't be able to just "spend" our way out of this long-neglected mess. However, it will still become increasingly important to allocate our always-limited resources, especially skilled people and money, among the most pressing needs as objectively as possible.

If we can agree on that, I would claim that extra doses of "conservatism" or anyiother potential biases would be seriously misplaced if they were to cause us to either overspend or underspend precious resources on a particular tiem, or if they otherwise inhibited the strength and effectiveness of our

answersi

Already, new, stiff legal
("Superfund" requirements have been imposed, and there are reports of billions of dellars to be spent here, and well ever \$100 billion on other DOB sites. Undoubtedly, incineration and some of the other cleanups will iddeed have to be continued. We are progressing. But the actions of the tiny, but very potent, group of anti-nukes have always been perfectly predictable. Unless we learly a lot more about timely (really "preventive") and effective public information, there will be much more costly confusion will be much more costly confusion and damage!

I believe the time has come for responsible technical societies and managements to support a series of workshops with intensive role-playing, etc. Trie objective would be to sharpen our witt and effectiveness with the media and the public - and ob so while maintaining our integrity and credibility.

Why not try some local stabs in that direction? By the way, the audience obviously enjoyed Louis Toth's informal remarks and demonstrations of the many sources of radioactivity that all of us have

always lived with. We could sure use a few more of him!
So what is the situation at Watts
Bar Lake? What about mercury and the PCBs? And what kind of action will be called for? See you here, next Sunday!

John Shacter is owner of JS Associates in Kingston.

12:55

MONDAY July 9, 1990

P. 1

# Watts Bar water determined safe for consumption

EDITOR'S NOTE: This is the third in a series of articles about Watts Bar Lake. Because of the extreme importance of the subject to the economy of the area and to the people who live, work and play near the lake everyday, the editorial staff of the News hopes to be able to provide answers to the many questions left in the wake of recent publicity. Readers' letters, suggestions and comments are welcome.

By CHERYL DUNCAN Harriman Editor

> Water, water everywhere, nor any drop to drink From "Rhyme of the Ancient Mariner"

ROANE COUNTY - Despite recent reports of contaminants in Watts Bar Lake, local and state officials have declared that the drinking water supply in Roane County is safe and does not appear to be affected by the substances.

Studies indicating the presence of mercury, PCBs and Cesium 187 in Watts Bar have been the cause for alarm from some groups in Roane County.

The water system in Harriman is virtually withdrawn from the problems, since the primary water supply is from the Emory River, said Henry Grigsby, manager of the Harriman Utility Board. Flowing from the Cumberland Plateau into Harriman, the Emory River is a tributary of Watts Bar.

"During low-flow periods, like this time of the year, some of the Clinch? River water could make it up to the intake of our plant;" Grigsby said. "However, Harriman's water supply would be less likely to be affected by those elements."

Since the intake of the Cumberland Utility District is from the Little Emory embayment, that; water supply would also be virtually unaffected, Grigsby said.

Concern has been prevaient about the water supplies of Kingston and Rockwood, which border the lake. Although water department officials in those cities understand the fearthey adamantly deny any problems with the water supply.

"Everything is below standards that's been tested for," said Les Skidmore, water plant operator in

Please see Water, Page 1

# Watts Bar

boats are booked practically every weekend. I projected a 20 percent increase in business from last year, and at this time I have had a 12 percent increase," said Steidle.

"This thing about the lake is not something that has just happened overnight. I feel that it has really been blown out of proportion: the lake is no different now than it was 15 years ago," added Steidle.

Steidle went on to say that the fishermen at Blue Springs had experienced the best fishing they have had in the past four years. "One particular boat brought in 296 striped bass one night," said Steidle.

Tournament fishing is a big business on Watts Bar, and many of the tournaments start at Kingston City Park. One such tournament, the Wildcat Bass Tournament, is held each Thursday. Claude Prater, co-director of the tournament, lives on the lake and fishes at least five to six times a week. Prater, like some of the marina owners, believes the publicity has basically resulted in fewer visitors coming in to fish on the lake.

"It hasn't hurt our tournament at all. We have found very few fish with bad places, and those we have found could have gotten the sores because someone had caught the fish before and mishandled it, taking away some of the protective covering the fish naturally has, causing sores to occur," said Prater.

Most of the fishermen at the tournament consider Watts Bar to be the cleanest water around. In many of their opinions, Watts Bar is the best lake in Tennessee to fish. The prevailing attitude of marina owners and area fishermen about Watts Bar is that people are just now becoming concenned about something that has been happening for a number of years. They, like anyone, are concerned about the condition of our lake but, unlike many others, do not consider themselves or their businesses in any immediate danger.

What about Watts Bar? The majority of fishermen say they will keep fishing, while the majority of boaters will keep on skiing and boating. Sure they are concerned, but the ones we talked with say they do not see any immediate danger and will continue to use the lake until it is posted and they are prevented from doing so.

The Roane County News

What about Watts Bar?

WEDNESDAY July 11, 1980

........

# Local lake users say Watts Bar 'better than ever'

'As far as I can tell, there's nothing in Watts Bar affecting the bass population. It seems if the pollutants were heavy, we would be finding poor-looking fish, but I have yet to catch any.

**Doug Piemons** 

By TONY CLOWER Interim Sports Coordinator

ROANE COUNTY - The recent publicity about the environmental condition of Watts Bar has raised many questions about the status of the lake that has become an economic and recreational asset to our county.

What do the fishermen and boaters of our county think about the condition of the lake? Have the marina owners in Roane County experienced any economic loss because of negative publicity? These are people who use and see the take every day and, as in all cases, each has his or her own and different opinion.

When one drives by the Kingston City Park, one should be able to tell by a glance that the fishing, at least in this immediate area, has never been better. According to Tony Tonachio, Kingston Parks and Recreation director, there have been 50 fishing tournaments working out of the park in the last six months, and there is no indication of anything slowing them down.

"We have had an excellent response to the situation as far as our tournaments go," said Doug Plemons, guidance counselor at RCHS and fishing tournament director. "The base population in Watts Bar is excellent. The catches in this year's tournaments have been really Zood.

"As far as I can tell, there is nothing in Watts Bar that is affecting the base population," added Plemens. "It seems that if the poliutants were heavy, we would be finding poor-looking fish, but I have yet to catch any. I just can't remember when the fishing in Walts Bar has been better," Plomons concluded.

"The negative publicity about the lake has definitely affected fish sales from the lake," said Boyd Woody, Midway High principal and longtime fisherman. "But I take these fish I catch to homecomings and reunions, and the bad publicity about the take sure doesn't cut down the consumption of the fish," added

Woody, "In my opinion, the lake is cleaner now than it was 10 years

'Rumors about the lake, which are justified by the Department of Energy, have drastically reduced the usage of the lake," said Bill Holladay, officer with the Tennessee Wildlife and Resources Agency.

According to Holladay, the negative publicity about the take has

not been enough to put establishments on the lake out of business, but it has been enough to: cause a definite curtailment in lake activities. "We are getting a lot of calls from local people asking if the lake is safe for recreational use, and the number of outside people using the lake has decreased," added Holiaday.

Many of the key businesses along . Watts Bar Lake are the marines and . campgrounds. Opinions of marine and campground owners vary on the effects of possible contaminants in the take.

"The publicity has definitely hurt my business." said Judy Halliday. owner of the KOA Campground just off River Road. I am normally booked up with reservations for the July Fourth week, and this year I did ont have near as many people call for reservations. added Halliday. "About 78 percent of my local business has not been affected. What

we call transit or outside business has felt the most severy blow. Some may contribute this to had publicity but I don't," said LE. Browne, owner of the Long Island Marina on Paint Rock Ferry Road

"I feel that the newspapers in Knoxville are the ones really caus-ing the problem. The Watts Bar Association met and talked with state and federal officials who

issued an advisory about the lake, not a warning," added Browne. Larry Steidle, owner of Blue Spr-ings Marine Inc. on Rivel Road, said his business has yet to be affected by publicity about contaminants in the lake. "We have had a let of phone calls from people in outlying areas asking questions, but many pontoon

Please see Walls Rar Free 2-4

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# from page 1

# Water

Rockwood.

Kingston City Manager Pete Lamon said his city's water supply is under the same circumstances.

"The water we take in doesn't have any contaminants we aren't able to treat," he said. Like Harriman, Lamon noted, "Our intake shouldn't be affected by Watts Bar unless you have a backup."

Kingston's source of drinking water is from the area of the Tennessee River just upstream from the Clinch River. The water supply in Rockwood is the King Creek embayment.

"Most of the water we treat is from the spring," Skidmore said. "We don't get it from the main channel."

Woody Smith, an environmental engineer in the Water Supply Division of the state Department of Health and Environment, confirmed that the three municipal water systems in the county have met all state requirements.

"None of the systems have any violations," he said.

The contaminants pose little threat to any of Roane County's water supply. Smith said. Each system is chemically monitored on a regular basis so that any trace of questionable substances is detected.

The only time those contaminants could become a danger in the water supply, according to Smith, would be in the event of a spiil upstream.

# 'The water we take in doesn't have any contaminants we aren't able to treat.'

Pote Lamon

Smith said that all municipal water systems in the state underwent a radionuclides test in 1988. At that time, none of the systems were in violation of state standards for radioactive contaminants.

"It hasn't shown itself to be a problem," Smith said.

The next radionuclides test for municipal water systems is planned for 1992.

Drinking water from the county's wells is directly unaffected by substances in Watts Bar, said Don Rima, a geologist with the state Department of Health and Environment in Nashville.

"Any Cesium 137 that gets in a surface stream is not likely to get into the ground water in that part of Tennessee," Rima said.

According to Rima, there would be reason for concern if wells were drilled into course materials. However, Roane County's estimated 1.860 wells are drilled into rock, he said.

The same helds true for PCBs, which Rima said could not get into underground sarings through lake contamination. However, the manmade chemical can make their way into ground water if they were allowed to infiltrate through landfills, sewage or sludge pits, he added

sewage or siudge pits, he added.

Mercury in Watts Bar would not be a concern for the ground water, Rima explained Since the element is a naturally occurring substance, it is entirely possible that it could get into well water independently, he said.

According to Rima, TVA collected two dozen samples of water from Tennessee wells in 1975. One sample, obtained from a well at Watts Bar Nuclear Plant in Rhea County, showed an amount below state standards, which is 2 micrograms per liter.

"There isn't assingle determination (across the wtate) that is not above the determined limit," he said.

# When the pace slows, look out for summer surprises

OAK RIDGE — OK, tortured guests and peaceful dreamers, the theme for today's column summer surprises.

A couple of examples:

BACK IN THE SADDLE — Surprisingly enough, it appears there will be a union "referral" system put into place for construction activities on the Department of Energy's Oak Ridge reserration.

larly the host of non-union, subcontractors that have assumed an increasing share of the conindeed, some folks may be stunned --- particu-

negotiations between Rust Engineering, the agency's long-time construction chief, and the Knoxville Building and Construction Trades struction workload at DOE's Oak Ridge plants.
DOE reportedly was much against such a development when the issue dominated contract

With the subsequent strike by construction workers and Rust's lame-duck status, however,

year as construction manager, was brought to town early by DOE in an effort to reach a long-term agreement with the unions. (Wonkers re-MIK-Ferguson, which replaces Rust later this turned to work as a good-faith gesture while negotiations resumed.) things changed.

dealt with such a system before and found it According to grapevine reports, MK-Ferguson is ready to live with a union-referral system and has now presented a proposal to DOE on the matter. The construction outfit supposedly has morkable.

The unions cesperately want the referral sys-



threated because of the mounting presence of sub-contractors - most of them non-union - on cen as a means to future job security, which the government work sites.

The surprise is that DOE apparently will support a referral system in some form, despite its previous opposition. (Already questions are being raised about a possible conflict with "right to rock" guarantees.)

Phoenix Engineering, has expressed its disapleast one construction sub-contractor,

sition as a contracting firm is jeopardized if a mandatory union referral system is allowed to be forced on our company," Lance Dunaway, the arm's president, wrete in a letter to Bep. Marilyn proval

Denaway raised a number of questions about the rumored agreement, including, "Under a union referral must contractors be a signatory to unions and their work rules?" and "What would union, and would existing employees have a right to refuse union membership?" be the status of current employees who are non- Remember when BEDTINE STORIES

Mom used to read you those sugarcoated tairy tales at bedside to help you sleep well at night?

know their efforts are well-intentioned, but I've been a bit amazed at some of the things being said to sedate those people concerned about the polluprisingly well with adults, too, or so some believe. Well, that same maternal strategy works surtion in Watts Bar Lake.

Perhaps folics are trying to counter some of the wilder exaggerations about the pollution threat, and, yes, I've beard a few.

ple won't needlessly panie, but some of the fodder has stretch marks on it. For instance (and there press release issued by Rep. Marilyn Lloyd, following a meeting with DOE officials: are other examples), here's a statement from a It's fine to put things into perspective so peo-

"There are no contaminants in the shallow wa-

nel and tend to be a couple of feet down in the sediment, there is contamination throughout the That, of course, is patently untrue. While the highest concentrations are in the old river chanter areas ...

shallow waters closer to people, we're in the process of going back and taking many more samples "That bothered me when I saw that (Lloyd's statement; "said Dr. Bruce Kimmel of Oak Ridge National Laboratory, bead of the pollution-track ing effort. "It's incorrect. It's very low levels; but because they (pollutants) are located in those reservoir.

Stay tuned.

Frank Hongar covers the Department of Energy for The Hones-Continue.

The Knoxville News-Sentinal July 12, 1990 P. A16

# Family enjoys visiting, fishing at Watts Bar

Editor, The News-Sentinel:

All that we have heard and read are the bad things about Watts Bar, and I am sick of it.

My family and friends have been going to Bayside Marina and staying with the Fisher family for the past six years and love every minute of it

and love every minute of it.

I live in West Knoxville, five minutes from downtown and five minutes from Loudon. We choose to go to Watts Bar because it is not full of trash, and the water is much clearer.

When we come home, we always eat

the largemouth bass that we daught there, and we haven't changed colors vat.

yet.
You people that are stirring up this stink — why don't you do something good like find a cure for cancer, step the drunk drivers from killing our families. Better still, stop the people that are burning our beautiful American flag.

If you want to have a good time, come to Watts Bar Lake. We will probably see you there.

Charije Tallent Knoeville ROANE COUNTY NEWS

7/13/90

Page 1-A

## What about Watts Bar?

# Swimming not so risky

By DEBBIE GIBSON News Intern

ROANE COUNTY — Roane Countians can rest easier when considering a dip in Watts Bar Lake.

Swimming in the lake this summer has increased if not doubled this year. In view of recent reports of pollution and contamination, one could expect the opposite.

Swimmers at Roane County Park, Kingston City Park and the Caney Creek informal swimming area all agree that they have concerns about the lake, but those concerns appear to be centered on fish consumption rather than the effects of swimming in the lake.

Water in Watts Bar lake is checked yearly for fecal coliform bacteria, which, according to Dr. Tom Byrne, associate dean of the Math, Natural and Social Science Division at Roane State Community College, "if present in the water, indicates that sewage treatment plants are inadequately treating human waste."

The danger of high levels of this organism in swimming areas is that, Byrne states, "if large amounts of lake water are swallowed, a gastro-intestinal upset can occur." A familiar member of this group of organisms is Salmonella.

Joe Fehring, environmental engineer with the Tennessee Valley Authority Water Quality Artision, states that water at Roade County Park, Riley Creek, the informal swimming area at Caney Creek and the Southwest Point Park location was tested over a two-week period in June.

TVA and the state Department of Health and Environment worked together to choose testing sites, sample collection and test performance. The main criteria used for determination of possible contamination is more than 200 colonies per culture of fecal coliform bacteria. "The highest bacterial count was from the informal swimming area at Caney

Please see Swimming, Page 2-A

# from page

Ocet, and that was 34, which makes the water in the areas tested agreedy clean," said Febring Swimming

degenera at Rome County Park state that people ank if it is safe to about the lake, but no one has refun-ed to swim there specifically because of four of pollution. with there and express concerns

According to Megnard Robbie Threaten, approximately 150 to 300 people use the revisionalisty area each day. He emphasized the fact that not only was the water safe, but astural water, Thornton stressed another sufety factor for the park. There his never been a major accident or springs constantly move and circulate the water. Along with safe

Bar Dam to Norris Dam were Environmental Sciences Division of Martin Marietta, 15 siles from Walls chosen for sampling lish, water col-men and sediment. Systems Inc. hest summer as part of Lifegrand Mike Bilbrey worked with the Eurtreometatal Science division of Martin Marietta Energy irowning at the part," he said.

the results have not been released. Sediment samples were taken as deep as 4 feet. The samples taken Peachers, college and high school students participated in a cooperative educational program last year to help cullect samples. laboratory at the K-25 facility, and samples were sent to the the waterways around 'Oak Bidge and the Pigeon River. In his opinion, "The water in the late is 10 times safer than in the creeks in the sarrounding areas, especially the a cooperative program with Rouse State Consumity Callage. The project involved testing water, animals and fish from surremeding waterways. He believes cuncerm should be centralized on

that is hoped to provide information to evaluate the risk to humans. Lee Shugart, research staff member of Martin Marietta's Exare part of a new and detailed study

Accurating to Bob Cook, group cader of the research staff of the

According to Bob Cook.

Pigeon River."

vironmental Sciences Division, where field is the genetic aspect of the DNA of test animals, stressed that studies take time to conduct and that "quite often, it is difficult to show a correlation between exposure and bealth problems."

Both Tony Tonachio, director of Kingston Parts and Recreation, and David Woods, director of Rockwood one has mentioned using community pools rather than the lake boczane of Parks and Becreation, stated that so pollutants. Rouse County Park Superintendent J.W. Harmon best year ever. Business is double from last year." Be states that a lot Agreed by saying this has been "the Mary for pendike expense?

of travelers have used the park this year, and no one has asked about the

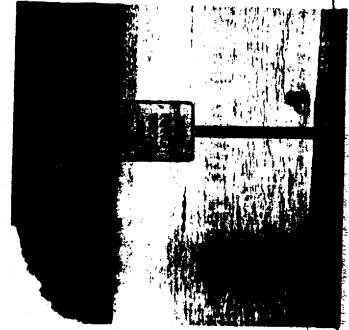
Area pool dealers say that visioess has increment, but believe the reason is the bot weather rather them fear of swimming in table water. All agree that no customer has purchased a pool because they dea't want to swim in Watts Bar

Kingston, don't let their daughter swim in the lake because they believe the contamination is "there to be deedged up, so it's in there." They go to Kingston City Park for Shannon to use the playground. The Frenchs say they would John and Cindy French,

"rather spend a little more and go to a public pool; then you don't have to wonder." They agree that, "If per pie beer all the staff and still choose is swine, then they either have to not before it, or not care."

A group of four mothers with a total of 10 children sphehing in the "Until actual facts are released that there are risks involved in anything you do. They all think about the situation but feel that lake at Roane County Park agree yoe, you don't know for sure."

thought it was dangerous, they wouldn't let people in the water." Another park mer states, "If they



SIGIS LINE THIS clearly leave the choice up to the indirectual swimmer. This year many house Charolines have made their choice and the public waters are overflow E with summers. (Staff photo by Debbie Gibson)

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# urgent is the 'cleanup' of Watts Bar Lake?

As conservative scientists and program managers like to stress. there is of course a "need for more data - before remedial action can be initiated" at Watts Bar Lake. And it is a rather safe prediction that there will always be a need for more data. Explorers are hardly over satisfied in that regard.

However, as I tried to point out in last Sunday's column, an excess of concern or conservatism on any one issue is not necessarily in society's interest. In this case, there had been hardly any preparation of the public prior to the releases of the "preliminary" and "tentative" contamination reviews.

For too many weeks, the public

stage had been surrendered to the quite predictable, eager fearmongers. Notwithstanding the eventual public meetings, there still haven't been any succinct, clarifying statements by responsible top Department of Energy or Martin Marietta Energy Systems officials.

Nor have the repeated implications helped that more unpleasant news and drastic remedial options (What? Dig up the muds of Watts Bar? Do what with them, at what cost?) may still be ahead of us.

Qualified bottom-line expressions like "no imminent, shortterm dangers to the general public" don't help any, either! They merely make the aiready suspicious reader or listener wonder what unpleasant facts are still being kept from him or her. He gets the impression that the people in the know are trying to calm him down about his safety, today, but not necessarily tomorrow or thereafter. So his concerns re-

Rashes of national magazine articles and innuendoes by eager regional news reporters are continuing. Those of us who live on the lake still get frequent questions and expressions of concern about uses of the lake, from local people as well as tourists.

Many active or retired local technologists are thus getting a bit amused or tired about what seems to them to be gratuitous qualifications. They feel that it is not in the public interest to allow or, in effect. feed the continuation of concerns for which there is absolutely no justification from the data at hand!

In this column and the next, I shall try to summarize my impressions from the reports, meetings and follow-up discussions. And I



Hurdles and Horsesense John Shaoter

urge any involved investigators or reviewers to enlighten us, if they feel that any of these impressions are in error.

Pirst of all, by far the biggest mortality and injury risks at Watts Bar Lake have nothing to do with Oak Ridge or nuclear or other industrial activities. They result from accidents due to fun activities like boating, water-skiing and swimming, Next, assuming that you are not in the habit of eating the muds, there could be serious health risks if you drank too much of the lake. water -- not just a rare swallow or two, which any swimmer or skier would get. After all, most lakes contain all sorts of infectious bacteria (e.g., E. coll) from human and animal wastes, along with all sorts of viruses, smelly algae, etc., otc.

None of this is unique to Watts Bar Lake, and not even the most extreme anti-nukes have questioned these rankings of risks.

According to some, but not necossarily a majority, of investigators or regulators, the next most important contaminants of many lakes in the industrialized world are what all media like to refer to as "known cancer-causing PCBs." Polychlorinated biphenyis have been used for many years in the manufacture and operation of electrical motors, transformers, etc. And most experts seem to agree that past human (not just animal) experiences — even with concentrations of PCBs much higher than those in the lake muds or even in bouom-feeding fish - do not justify general adjectives like "known cancer-causing," as far as people are concerned. In any case, it is still a disputed issue.

It would be prudent, indeed, for any of us to avoid routine consumption of mass quantities of bottom-eating fish (or, for that matter, any other single food item). And it is well-known that pregnant women or young children would be more sensitive to such excesses than the general public.

Note next that the radioactive elements (mostly cesium-137) and

mercury, the two unique Oak Ridge released of the mid-1970s, have since been so widely distributed along the river bottoms and so buried inder a yard of subsequent mud deposits that in all probability they have been eliminated as health hazarda

In last Sunday's column, I led up to my invention of a new unit of contactlexposure to radioactivity. You have heard of ESP? This is the ESH. It is the "equivalent spouse hug" + or the intensity of exposure to which you are subjected when you hug your favorite, but alwaysradioactive, human partner. I also promised to have the figure checked and updated as necessary. So here it is:

Drs. Dordon Blaylock and John Wither poon of Oak Ridge National Baboratory have estimated that you would receive exposures of anywhere from 5 to 6 ESHs down to zero, if you built yourself a statue from various diggings of Watts Bar Lake and embraced it as passiodately as you would your favorith human partner. Generally, you would have to dive lower in certainicenter stretches of the channes to get mud at the higher levels. The lowest levels are likely to be found in the shallower shore areas. The same trend exists for other plid contaminants like mer-

(At intensities of 5-6 ESHs, in other words, you would have to embrate your human partner five t six times as long or as often to get approximately the same dose of

exposure as from the statue.)

Obviously, sources of harmful releases need to be identified and sharply curtailed or stopped.

Everyone is already focusing on that. There is an obvious drive on minimize measure of all some and a miningze wastes of all sorts, and t improve the safety and effectiveness of old and new disposal methodis, including incineration. Waste treatment technologies and industries are in a period of rapid growth. And the local emphasis it already placing the partnerships among old and new Oak Ridge contractors, the University of Ter nessed and the Tennessee Valley Authority, in positions of leaders

I plan to continue the list of co clusions and remedial actions in next week's column.

John Shacter is owner of JS Associates, Kingston.

# Last of 'Watts Bar: Where do we go from here?

scare, and what "remedial" steps we seed to take (based on all of the divert a bit to the government's shockingly beland "Hanford reveeach us several different lessons of public information, confidence and answer is absolutely none!), let me lations." The two situations should Before I return to the Watts Bar information to date, the obvious decision engine

nothing short of a major official in-formation and credibility scandal. The Hanford releases of radioac tive incline in the 1940s and 1950s indeed. Apparently, thousands of appear to have been very scribus, rays, to as many as 5,000 rads! doses from a few rads, roughly equivalent to dozens of chest Xperiod of time. Such an obvious "fortunately" over an extended people in the vicinity received cover-up, over the decades, is

hadn't been better prepared and educated about the safety of Watts

In any preceding columns, I rais

ed the question why the public

Chernoty I accident (which still left decade Hamford cover-up fizaco to releases, themselves. It is not very well rival those of the radioactive flattering to our system to have it a for to be desired) put our multibelated information releases any turn out that the Soviet Union's "glasmost" (operatess) on their societal consequences of such In my opinion, the harmful

official pronouncements --- and how official credibility can be

scens to reflect a shocking degree of official negligence or inscusitivi-ty, clear through the 1980s! Certainly, carly arguments for wariums secrety or national security could extent. Searching questions need to be asked and asswered. And in tonot be reasonably streached to that Our 40-year information delay day's environment, it would not

and polychiorinated highesylt, have been so widely distributed and

covered (by about a yard of more recent smalls) that they pose no

gd and amalyzed. Pacaphousing she Oak Ridge National Laboratory

Bar? As I have pointed out, the nauds of the lake have been sample

Atast is the situation at Watts

formation, to date, they have in ef-

scientists: On the basis of the in-

feet concluded that most of the respots, including motorry, cesium

maining solid or attached conta

health threat to sayone who uses the lates for reconsticm. **Hurdles and** 

Horsesense

Just inflict on this. Has nature notowered them, it would be quie-conceivable that a gignatic and costly mad cover operation suight here been proposed by some anti-bitions soul. So aren't we lacky that Mother Nature has beaten our tax dollars to it?

coding figh. However, even with mass consumption of such fish, the mass of PCBs in our bodies would You will recall that the PCBs do and to concentrate in the farry states of some moutly bottombe much lower than, say, electrical workers have experienced in the part. And because of the questionible evidence from human (not minns) data, there is onesidenth controversy among the experts thought a meed for fish "ad-

sort of new legislation that would authorize criminal complexe; charges, along with an independent public oversigns office to discounage such stupid and arrogant cover-ups in the funate!

surprise rae to bear cults for some

Shacter - Hope

So, from the data at head, it would make absolutely no sense to

nics of the anti-makes and some of e media, and could thus have

woided the damages of local and

COL COMICESMS.

made public. This would certainly have countracted the predictable

Bar Lake before the reviews were

Now, of course, with the Handord example, one has to wonder to what extent the public would still believe

try to dig the contaminant layers up, and remove them - where to end at what coat? -- now or in the forecable fature!

In fact, trying to ancover or distants the harded layers by massive designing may well be the most ill-considered actions that could be tively stable state. Became of natural decay processes and the probibi-tion of further releases, contamineats like cesium and the PCBs are likely to diminish over the years, in traving them in their current, relaaken — considerably worse than EL CASE

the risks of PCBs from massive fish ghly conservative studies ranked (mill not very high) then either hose from cesium or mercury. So mption considerably higher You will recall that ORNL's of's chabonate a bit.

First of all, contrary to the mer-cary or the radiomedides, PCBs are not unique to Oak Ridge. In fact, experts seem to agree that most of Watts Bar's PCBs may well be due

equipment and industrial or storage sites, apstream of the lake. The public is not aware of that, and it to all sorts of mostly electrical should be!

closer to Alcon and Knoxville, and, by the way, to some of the anti-nutes and the media who have been the Watts Bar concentrations would lately so concerned and vocal about even contain the most PCBs around hore. There are significantly higher levels in Port Loudous Late conditions at the more remote Watts Bart So, obviously, were it not for sources at the upper late, Moreover, Wasts Bar doesn't

world. Except for its vicinity to Oak be considerably lower!

Nor are PCBs unsigne to Teanacese. They are found in many of the lands and just about all of the river systems of the industrialized not be the top-priority take around Ridge, Watts Bar would definisely bere or anywhere.

Furthermore, in accordance with the results of the studies to drate. I ree absolutely no remon for the Invalenced Comps of Engineers'

opposition to such unreasonable mud unrecessarily wordsome restrictions should be made clear to he Corps and the Tennessee Valley On the other hand, we should supadditional sampling before any permits for more massive dredging limitations on the building of add Amthority, before they are issued. port the requirement for specific tional private docks! Our strong are approved.

Our government has no mency of its own. It is our money and critical Surely we can't afford to waste additional billions on every new agenda that all kinds of single-issue extremists are trying to come up with. If we did, we'd be driving our ourseives - into the poorhouse, for people that we are talking about. Our politicians have already comnture dollars on the savings-andcan bailouts and other excapates. mitted bundreds of billions of our 'rich" Uncle Sam - and

John Shacter is owner of JS Associates in Kingston.

The Roane County News July 23, 1990 P. 1

# What about Watts Bar?

# Hopkins open about lake issue

By PAT HOPE Editor and HAYDEN EVANS Oak Ridge Writer

(Editor's Note: The following interview with Clyde Hopkins, president of Martin Marietts Energy Systems Inc. is the last in a series called "What About Watts Bar," which deals with the controversy surrounding contamination of Watts Bar Lake.)

OAK RIDGE - The NEWS: We're trying very hard to present a clear

picture of what this contamination deal is all about.

Thus far, we've talked about dredging, lake property, drinking water and recreational use of the lake and despite the fact that many experts from the Department of Energy and Martin Marietta have already addressed the subject, the NEWS felt one vital link was missing — hearing from the top management of each of those organizations, top management such as yourself and Mr. La Grone. We felt people

would find it readuring to hear about the lake in your own words. CLYDE HOPKING: I think it's ex-

CLYDE HOPKINA: I think it's extremely important that we in Energy Systems and the Department of Energy stay in contact with the community in terms of regular communication and no matter what our difficulties, we need to be open and characterize them accurately for the communities we all live in.

NEWS: On that thought it occurs that in the 50s the Oak Ridge facilities played the part of the "hero" following World War II and ail, but now they seem more cast in the role of "scapegat." You were here in the 50s, were you not? I'd like for you to comment on how those roles have become reversed.

HOPKINS: Yes, I was, I was right here in this plant from 1952 to 1970, the first 18 years of my career were spent here and I washere during the start up of the nuclear fabrications business. I happened to be in the production scheduling business that's what I was hired in here to do, so I was acutely aware of the pressures that were being placed upon this facility to produce maximum products out of enriched uranium and out of lithium to support the nuclear weapons program and get weapons in stockpile in a hurry.

I'll tell you this organization was just totally committed down to the last person to doing everything possible to get weapons components out of this plant as fast as they possibly could. I think it's fair to say I worked many nights every week changing schedules so the recipients of our products would know what they could expect out of this plant because every day you'd run into different problems, unexpected problems, and the part coming out of



CLYDE HOPKINS

Please see Hopkirk, Page 7

# from page 1

Hopkins . .

the cascades, the lithium cascades here, that had been forecast was changing from day to day, and as a consequence of that we ended up recalculating schedules on a day to day basis to tell the department of defense what was coming in the way of nuclear weapons. So the pressure was really on. Obviously, we were trying to defend the country. Everybody was all in favor of that then when the world situation required it.

NEWS: Did we know much about environment back then?

HOPKINS: I never heard anything about impacts on environment. We were sitting here on a 56,000 acre reservation and I don't think people were all that concerned about material like mercury getting off the reservation. I don't think it was in people's minds, their concern was getting lithium processed, using this mercury and getting it into weapons components to defend the country.

I think the people in this country have felt a sense of patriotism because of their ability to contribute in this arena that probably no other industry in the country has ever felt before. Now the world conditions have changed, since the 50s and 80s, and as world conditions change obviously people's views change about everything.

The other thing that's happened, or course, with the nuclear power industry coming into being and having a lot of people question the safety of nuclear power and that has reflected on anything nuclear that's going on in this country. So, it's unfortunate things have taken this turn, nevertheless, that's what's happened.

NEWS: Talk a minute about the feelings of the people who work here today

HOPKINS: Today, as compared to then?

NEWS: Yes, do they still feel patriotic?

HOPKINS: Yes, there's still a significant sense of that here but, of course, a lot of people from beek in that cra have retired. There's not many of us loft. In another five years there'll be essentially none of us who were in the midst of that, so the new people coming in can't get the feeling we had to the extent that we had it back then.

I do think that people who come to work in Oak Ridge — total — have one good feeling about coming to work here and that is that we're in three different businesses and if they happen to come to work in a acapons fabrication plant and decide, and I'm talking protessional people now, and decide they'd rather cast their lots — their working careers — in some other area, then we make it possible for people to move to enrichment or to the lab or to whatever.

I think there's still a sense of accomplishment here associated with the fact that every nuclear weapon in our country's stockpile has some component made in this plant. It think people feel good about that but when the media pounds you all the time about being in the nuclear business and the long range impact on the environment and the health and safety of the people associated with this business, then I think ultimately it has to take its toll.

NEWS: Certainly that seems to have been happening lately.

HOPKINN: But, I can't blame them. Young people do ask us a lot of questions about the future of this business and I'd be doing the same thing if I was starting out and saw the environment we're working in and saw the anti-nuclear sentiment in this country. I might have some hesitation about deciding to have my career expanded here, I really think I might.

NEWS: In your opinion is the Clinch River and Watts Bar contaminated? Is the water bad and what would you say to people who want to use that water? Do you use it?

HOPKINS: Well, let me start off by saying as strongly as I can, something about the competence of the people we have here at the Oak Ridge National Laboratory. I think when you put the Environmental Sciences Division, the Health and Safety Division and the Biological Division at the Lab together you've probably got the greatest collection of scientific talent to deal with these issues that we're dealing with that I know of anywhere in the country and probably anywhere in the world.

So, our scientific folks have great talent and one thing you have to know about a scientist is, that he stakes his career, his life essentially, on his research and his data. A scientist stands by that data under the scrutiny of management and certainly under the scrutiny of his or her peers. People express concern about the validity of data, but I think the average person doesn't realize the commitment the scientist has to his or her data.

I think to begin with then we have to feel very good as a company and as Oak Ridge Operations of DOE that we have this talent here to deal with the issues we're dealing with to-day

NEWS: So the reports we received were accurate?

HOPKINS: Yes, I have absolute total confidence that these people have given it their absolute best and they are as good as they are anywhere in the world and the data we've gotten is as good as anybody can calculate based on today's knowledge and technology.

NEWS: Do you personally use the water (in Watts Bar)?

HOPKINS: I don't awim. I don't swim anywhere, not even in a pool, but I do eat fish out of there eccasionally. I don't fish myself but I know people who do and when khey bring me fish I'm delighted to eat them. I would have no problem swimming there if I had the tire to do that.

NEWR: Well, one of the main para seems to be with dredging. We're hearing everywhere that we shouldn't dredge. Is that your feeling?

HOPKINS: I think the less deedging we do, and I might say on that story, there's a lot of communication going on and you may know better than I about the dredging busts ens. but as I understand it there's a temporary halt to any kind of dredging either commercial or personal until discussions are over among the agencies involved. TVA, the Cerps, DOE and so on. Discussions are either going on or plan to occur by our legislators in Washington asswell as on the state level. I think there is a temporary half to any king of dredging until all those take place and until an agreement can be put in place about what the future guidelines are. So, I think it's the right thing to do to stop it temposari-

NEWN: Where are we in the assessment/clean up mode? How much longer will the assessment take?

HOPKINS: Let me say a word about assessment. I know people feel that it takes a long time to do assessment when you talk about several years, But one of the things you have to realize is the assimal impact on the reservoir and on the river associated with the differences in rainfall and temperatures. What you need is a long period of time to assess the situation so you can be as sure as you possibly can that you've come to the right conclusion on how to remedy the situation. I thinkit's fair to say, no, I know it's fair, that as far as assessment, I feel very comfortable that it's going to take several more years to do that.

Based on all the data we have thus far we don't feel like we're doing any great damage to the environment or affecting the health of any of the mople who live and work here so we ought to take the time to do the that assessment job we can do and then come up with the appropriate alternative for dealing with the findings. Otherwise, we throw money at situation and often it's wasted. New, if we were getting readings that said we've got a real health problem then I think you'd pull all stops and you'd go spend whatever money it took b a short term basis to try and reme the situation, but when you're in t position that I believe we're in right now, I think we're doing the ris thing. It will take several years to bothose assessments.

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NEWS: And the off-elte part of

that will take even longer?
HOPKINS: Sure, but the assessments have been going on since the 49s about what's happening out there, but not to the degree they are now. The Laboratory has been interested since the 40s about what it was discharging and in 1988 when we decided to compile all the data that had been collected over the years associated with radioactive discharges from the Lab, we found the first report. I think it was dated 1959, with data in it, so this is not new interest in a problem, it's an interest that the Laboratory has had for a

long, long time. NEWs: Would you comment on the legal aspectatof the visits of the tiger team?

HOPKINS: Well, there's a proc that's going on that's called "rulemaking" that deals with the liability contractors assume for operating these piaces. Rulemaking deals primarily with what's happening inside the pignt and what happens in the ways of incidents that might impact off-lite folks. Now, as our current contract exists with the DOE we are totally indemnified as DOE we are totally incommined as the contractor formay incidents that might go wrong in title plant: that ef-fect people insidens, well as any ef-fect that might occur on the outside. The intent of ruleshaking is to place more liability on the contractor and not have the contractor totally reimbursed for all coits through fines and penalties as whiles criminal action. Rulemaking has been commented as he all the contractors and mented on by all the contractors and it's my understanding that a second version of the rulemaking, having taken into consideration the com-ments on the first version, will be coming out sometime this fall and then we will be allowed again to comment on the second version of rulemaking, perhaps in a hearing setting with the Department of Energy, and then akhird fersion will come out which thay be the real

thing. Until the real liabilities are defin-Until the real liabilities are defined it's hard to say what we as the contractor can end up deciding as we continue: The tining we're very clear on under the Prios/Anderson Act is that if we as managers of this place, the top people, willfully and knowingly do so desthing that impacts the environment and the people here, then we're liable for criminal presecution. There's no question about that.

NEWS: How would that affect Union Carbide since it was the con-tractor when most of the contamination we're talking about occured? Would it share the liability?

HOPKINS: No. sgain, back to the current contrast agreement. Whatever liability we incur or whatever cost we linear associated with the operation here; under the Carbide contract is well as under the Martin contract, we're covered. DOE would reimbures all those costs today. Carbide would not incur any financial loss because of its

NEWS: How does Oak Ridge compare to other DOE facilities? Is it safer?

HOPKINS: If you look at safety records and compare us to other DOE facilities I think it's fair to say until this year we have had the second best record in DOE, historically. Dupont/Savannah River has always been the leader in terms of safety records. They were always the people we were striving to catch up to. Let me put that in perspective for you. We measure our industrial safety in terms of lost work day cases which means a person has to be off from work for an injury or illness of some kind. Traditionally, in the four sites our lost work days would run in the range of 3-10. Dupont's would run in the range of 1-5. Now, if you look at other DOE facilities you will find them significantly greater in the long puil than our experience has been. In the last year, however, our safety record has been embarrassing because of the number of lost work day cases we've had. This calendar year we've had about 30 lost days. Change in the regulations regarding work day classification may account for part of it.

I want to be honest and say our performance has been worse than it has in the history of this company.

NEWS: What do you attribute that 107

HOPKINS: I wish we knew the answer to that but one of the reasons is the intense pressures we put people under in trying to deal with all the new health and safety and environmental regulations that are coming all the time and trying to have people deal with those in very short order and trying to have people prepare for tiger teams and all the audits and surveys. We believe this extra pressure we're putting on people takes their mind off the day to day thought processes with respect to safety. I don't know if that's right or not, all I know is that this organization has never operated under any more pressure than it has operated under in the last two to

three years and our safety record has gone to pot. It has to be associated with that pressure.

NEWS: As you know Hanford has been in the news lately. How does Oak Ridge compare with what's gone on at Hanford?

HOPKINS: I'll have to say I don't know a lot about what's going on in Hanford but I can tell you the problem we're dealing with here is a radioactivity problem that comes by way of water, primarily, and fish, and we don't have any airborne problems that even begin to approach what we've read about in the Han-ford area. We just don't have any airborne discharges of that kind that will affect people that way, I think it's fair to say when you have airborne contamination the impact is significantly greater than the kinds of contamination we're talking about. Of course, I'd have to get some technical people to put that into quantitative context for you.

Also, we need to remember that over the years we've had spin-dological studies of our workers. When you talk about instances of cancer here, we're lower than the overall pepulation, and there's several resions for that. Number one, we're not rischarging anything one, we're not discharging anything that impacts people in terms of cancer or exposure to things that cause cancer. Number two, people here are very health conscious, ex-ercise conscious, diet conscious, no-smoking conscious, so naturally they're going to have a better health record on the average. We don't see anything oria gross basis that says we've got sny cancer-causing con-cerns here. Instead we've got less here than misst places.

here than most places.

NEWS: Bas the contamination issue here been sensationalized and overdone by the media, and by environmentalists? How do you and your employees feel about it?

your employees feel about it?

HOPKINE Personally I would not have worked and lived in Oak Ridge and exposedmy family to anything I thought was harmful. Obviously, I've been here the better part of 39 years now and I feel very healthy. Who knows what might happen to me tomorrow but it could happen to me no matter where I lived.

You can't ever let your guard down. I think that's the point we need to make with the public. We're always concerned about the operations here and the potential impact of those operations on our employees and on the dommunities around us and we will sliways be doing the absolutely maximum effort to determine what's tappening to our people and the communities around us. So, no matter hew good we feel about our performance to date it has to get better.

# Watts Bar contamination raised by Roane County executive candidates

by Karen Ann Simsen
Oak Ridger staff

Roane County Executive candidate Clinton Sandmel said he wonders why people are just starting to speak out against the Department of Energy's pollution of Watts Bar Lake.

"They have been contaminating our lake since the 1940s, and we are just realizing it now? It is like going after the chickens after they've gotten out of the house,"

Sandmel said Tuesday at an informal candidates rally held at Oak Ridge Country Club.

Sandmel and incumbent Ken Yager were two of the four county executive candidates who attended the event sponsored by the Leagus of Women Voters of Oak Ridge. Pourteen of the county's 102 candidates attended.

Sandmel's comments referred to recent media attention to DOE's release of heavy metals, radionuclides and toxic chemicals

over several decades into Watts Bar Lake. DOE held two recent public meetings, one in Roans County, to explain its current project to characterize the types and amount of contamination. Sandrael also opposes private landfills and medical waste incinerators in the county.

Sandmel also disagreed with Yager's mention of the groat strides taken to improve rural fire protec-

See RALLY, Page #

# RALLY: Charlie Rodgers was only sheriff candidate

Continued from Page 1 tion and ambulance services in the county.

Sandmet, who said he was a member of the Roane County Auxiliary Police and an emergency medical technician, described fire protection in the county as "underequipped and undertrained." He added that the ambulance service is not always accessible to all residents of Roane County.

Yager told people at the rally that his eight-year reign as county executive has been a successful one, pointing to an "A" credit rating by national bond companies. He also noted that Roane has received a larger amount — \$3.2 million — in grants for economic development than 93 of the state's 95 counties. Yager has also spoken out publicly against importing out-of-county waste.

All three superintendent candidates — incumbent Jess Plemons, Larry Sills and Keevin Woody — spoke briefly at the raily.

Plemons said he felt the system had taken great strides in improving the system's curriculum, but he admitted there has been little progress in the area of facility improvements,

"We have failed to make any facility improvements," Plemons said.

He said educational research consultants are studying several proposed high school building projects that would best fit the educational needs of the students. Also, the Knoxville-based Kahn Construction Co. is still exploring the cost and feasibility of building one new high school or two. Plemons said both groups will share their results soon.

Woody, a Midway High School mathematics teacher, told the group he thought the county should focus on providing a stronger elementary program, which he thinks would increase the probability of success for students later in their academic careers.

Sills, principal of Walnut Hill Elementary School for 24 years, said he wants to try new, innovative ideas that have proven successful at his school.

"I want us to be more dynamic, I want us to get things done," Sills said.

Among other achievements, the Harriman city school was the first in the county to receive accreditation from the Southern Association of Colleges and Schools.

Sheriff candidate Charife Rodgers was the only candidate in his race to attend the event. He spoke of the need to address the drug problem in the county.

There is a need to get control of the county drug problem. I think there is a need to look at the problem in the school system and I would like to work in cooperation with the superintendent to address the problems there," Rodgers said. Rodgers owns the C & S Service Center in Midtown.

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# Is Watts Bar Lake 'cleanup' urgent?

As conservative scientists and program managers like to stress, there is, of course, a "need for more data" before definitive conclusions can be drawn or "remedial action" (what? dig up the lake's muds? and put them where, at what cost?) can be initiated at Watts Bar Lake.

And it is a rather safe prediction that there will always be a need for more data. Explorers are hardly ever satisfied in that regard — and in the meantime, the public wonders about the meaning of "no immi-nent" or "no short-term" danger and continues to be concerned.

As I tried to point out in my prior column, an excess of conservatism on any one issue is not necessarily in society's interest. Besides, in this case, there had been hardly any preparation of the public prior to the releases of the "preliminary and tentative"

For too many weeks, the public stage had been surrendered to the quite predictable, fearmongers. Notwithstanding the eventual public meetings, there still haven't been any succinct, clarifying statements by responsible top Department of Energy or Martin Marietta Energy Systems Inc. officials.

Rashes of national magazine articles and innuendoes by eager news reporters are contiming. Those of us who live on the lake still get frequent questions and expressions of concerns about uses of the lake, from local people as well as from visiting tourists. Many local technologists are thus starting to wonder whether it really is in the public interest to allow or, in effect, feed the con-tinuation of concerns for which there seems to be absolutely no justification from the

In this column and the next, I shall try to summarize my impressions from the reports, meetings and followup discussions. And I urge any involved investigators or reviewers to enlighten us, if they feel that any of these impressions are in error.

First of all, by far the biggest mortality and injury risks at Watts Bar Lake have nothing to do with Oak Ridge or nuclear or other industrial activities. They result from accidents due to fun activities like bouting, skiing and swimming.

Next, assuming that you are not in the habit of eating the muds, there could be serious health risks if you drank too much lake water - not just a rare swallow or two which any swimmer or skier would get. After all, lake water is untreated, and most lakes contain all sorts of infectious bacteria. including "E-coit" from human and animal wastes, along with all sorts of viruses, smelly algae, etc., etc.

None of this is unique to Watts Bar Lake. And not even the most ardent antinukes have questioned these rankings.

According to some investigators and regulators, the next most important con-taminants of many takes in the industrialized world are what all media like to refer to as "known cancer-causing PCBs." PCBs have been used for many years in the manufacture and operation of electrical motors, transformers, etc.

### Guest Column

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JOHN SHACTER

And most experts seem to agree that past And most experts seem to agree that past human (not just animal) experiences even with concentrations of PCBs much higher than those in the lake much or even in bottom-feeding fish — do not justify general adjectives like "known cancer-quusing," as far as people are concerned. In any case, it is still a highly disputed issue.

is still a highly disputed issue. I Regardless of the outcome of that dispute, it would be prudent, indeed, ito avoid a "lifetime" (70 years assumed in the studies) of mass consumption of bottom-eating fish—or, for that matter, any other single food item. And it is well known that pregnant women or young children would tend to be more sensitive to such imprudent excesses than the general rubble.

than the general public.

Note next that the radioactive elementa (mostly Cesium-137) and mercury, the two unique Oak Ridge releases of the mid 1980s, have since been so widely distributed sions the river bottoms and so buried under a yard of subsequent mud deposits, that they have been, in all probability, eliminated as health

hazards!
In part I, of this column, I reported to you that you would receive anywhere from zero to 5-6 "ESH" (Equivalent spouse hugs) units if you were in direct contact withithe dug-up mude of Watts Bar Lake. (Generally more at the desper stretches and less at the shallow edges. (You will recall that all of us humans contain traces of radiorpicides, as well, and that the actual "hug exposures" from your favorite human partier (and of course from your own body) would rival those of the more imaginary hugs of the muds.

At mud levels of 5-6 ESH, you would have to hug your favorite human partner five to six times as long or often to ght approximately the same exposurs. Or — puraphrasing the Harriman remarks of Dr. Bill Parkinson of the Roano-Anderson Professional Society— since we are in more frequent contact with people than with muds, shouldn't we get rid of people before we think of getting rid of the radioactivity in the muds?

Obviously, sources of harmful releases need to be identified and sharply curtailed or stopped. Everyone is already ficusing on that. There is a strong drive on to minimize wastes of all sorts and to improve the safety and effectiveness of old and new disposal methods. Waste treatment technologies and industries are in a period of rapid growth.

And the local emphasis is already placing this region in a position of leadership.

I plan to continue the list of conclusions and "remedial actions" in my third and last

column on the subject.